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AIRCREW AUTOMATED ESCAPE SYSTEMS (AAES)

DATA ANALYSIS PROGRAM SYMPOSIUM

VOL IV

(COPIES OF VISUAL PRESENTATION AIDS & ADDITIONAL INFORMATION)

Presented by:

NAVAL AIR SYSTEMS COMMAND

NAVAL SAFETY CENTER

NAVAL WEAPONS ENGINEERING SUPPORT ACTIVITY

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Several Contractor Interest and annual

DEPARTMENT OF THE NAVY

NAV." GAFETY CENTER
NAV...L AIR STATION
NORFOLK, VIRGINIA 23511

IN REPLY REFER TO:

122:gc 3750 Ser 4223 4 September 1981

From: Commander, Naval Safety Center

To: Distribution

Subj: Automated Airborne Escape Systems (AAES) Symposium

Encl: (1) Agenda for subject symposium

1. At the request of the Chief of Naval Operations and with the cooperation and support of Commander, Naval Air Systems Command, Commander, Naval Safety Center, will co-host a two-day symposium to review selected topics associated with Automated Airborne Escape Systems (AAES).

- 2. The symposium will be held at the Naval Air Station, Norfolk, Virginia, on 6, 7 and 8 October 1981. The symposium's format will consist of informative presentations, 30 40 minutes in length, followed by open question—and—answer periods. Representatives of the Naval Air Systems Command (Aircrew Systems Division), Naval Weapons Engineering Support Activity (Systems Analysis), and the Naval Safety Center (Aviation Directorate) will present results of selected studies conducted for the purpose of evaluating or monitoring AAES usage, performance and/or maintenance trends. Source data has been derived from historical mishap data files maintained by the Naval Safety Center.
- 3. The identification, assessment and effective resolution of problem areas related to the effective use, maintainability and operation of AAES has been and will continue to be a major objective of the Navy. Systematic analysis of long-term mishap data is one approach to identifying reliability and maintainability degradation trends, as well as potential system deficiencies. The utility of such analyses in escape system design, acquisition and modification processes is considered to have significant value to both industry and DOD organizations having a direct interest in AAES and their subsystems.
- 4. The proposed agenda, enclosure (1), is provided for your interest and review. If your organization desires representation at the AAES symposium, please provide names, grade/rate (as appropriate), social security numbers, job title, and security clearance to this Command no later than 15 September 1981. Additional information on approved agenda, time schedule, conference location and travel directions will be forwarded. Due to space limitations, each organization/command will be limited to no more than three representatives.

5. Naval Safety Center points of contact are: CDR V. Voge (Code 14, Autovon 690-7341) and LCDR R. Moe (Code 122, Autovon 690-3494). COMNAVAIRSYSCOM/NAVWESA points of contact are: Mr. F. Guill/Mr. C. Stokes (Autovon 288-3621 or Commercial 202 433-3621).

T. C. STEELE

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AGENDA DAY 1

0800-0850	Registration
0900-0915	Opening Remarks - Welcome
	RADM T. C. Steele
0915-0945	Introduction of Host Reps
	Area Orientation
0945-1000	Break
1000-1050	AAES Data System Program Introduction
1100-1150	Review of AAES Use and Non-use
1200-1330	Lunch Break
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1430-1520	Helmet Retention/Loss Factors
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1000-1150	In-Service System Reliability
1200-1330	Lunch Break
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1430-1520	Aircrew Size/Anthropometry
1530-1620	Expected Impact of AAES Data System Usage
	AGENDA DAY 3

To be used as necessary based on progress during days 1 and 2

PRESENTATION TOPICS

1. Introduction to AAES Data System Program NAVAIR/NAVWESA

Objectives

Interface NAVSAFECEN/NAVAIR

Present Status - Future Plans

Constraints

2. Review of historical use and non-use of AAES NAVSAFECEN/NAVAIR

Results: Survivability

Trends in Usage Rates

Non-survived Ejection Cause Factors

Usage Conditions

AAES non-use trends

Success Criteria

3. Through-canopy vs Jettisoned-canopy Injuries NAVAIR/NAVSAFECEN

Vertebral

Upper-lower limbs

Head/neck

4. Helmet Retention/Loss Factors NAVAIR/NAVSAFECEN

Vertebral Injury

Varying levels of consciousness

Head/Neck Injury

5. Ejection Flail-tumbling Factors NAVWESA/NAVAIR

As a function of airspeed

As a function of system design

As a function of Escape initiation method

- 6. In-service Reliability NAVWESA/NAVAIR Ejections attempted but not accomplished Other failure/malfunction modes
- 7. Ejection Survivability in Low Altitude Overwater Environment NAVSAFECEN/NAVAIR
 - . Land vs Water Survival
 - . Overwater Fatalities
 - . Parachute/RSSK Divestment and LPA Inflation Variables
- 8. Aircrew Restraint Factors NAVSAFECEN/NAVAIR
 - . Negative "G" Environment
 - . Research on "G" Restraint Systems
- 9. Expected Impact of AAES Data System Program NAVAIR/NAVWESA
 - . Short Range
 - . Long Range

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U. S. NAVY; Representation from:

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NAMRL PNCLA

NAMI PNCLA

NAVAL BIODYNAMICS LAB

NAVAIREWORKFACS (6)

TYCOM - Safety; Flight Surgeons; Physiologists

OPTEVFOR

USAF; Representation from:

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WRIGHT PATTERSON AFB

BROOKS AFB

ANDREWS AFB

KELLEY AFB

ARMY; Representation from:

FORT RUCKER ST LOUIS

NASA

LANGLEY AFB

MANNED SPACE CENTER

CONTRACTORS

PRIME AIRFRAME

Grumman; Boeing; Vought; Douglas; McDonnell; Republic; Fairchild-Miller; Lockhead; Convair; Martin-Baker LTD, U.K.

OTHERS

Teldyne Ryan; Stencel Aero Engineering Corp.; Pacific Scientific; Talley; Biotechnology; Humanoid Systems; Dayton T. Brown; East-West Industries; Explosive Technology; Space Ordnance Systems; Person-System Integration; Advanced Logistics Management Inc.; University of Cincinati; Wayne State University; University of Southern California

FOREIGN COVERNMENTS (having similar AAES)

CANADA GREAT BRITAIN FEDERAL REPUBLIC OF GERMANY

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AIRTASK, WORK UNIT ASSIGNMENT NAVAIR FORM 3930/1 (REV 2 77) See NAVAIR 3900 8 or supersedurfor applicable details on completing this form.

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Director, Naval Weapons Eng Support Activity Systems Analysis Dept. (ES/ Washington Navy Yard, Wash	A_31 \	A512-512C/184-4/1512-000-055 A5312B-04	AMIND NO
Mr. Frederick C. Guill A	IR-531C	NORMAL UNCLASSIFIED	

2. Cancellation, References and/or Enclosures.

Cancellation: Work Unit A5312B-04 dated 13 Dec 1979 and subsequent amendments

under AIRTASK A512-512C/184/0512-000-055 amend. 1.

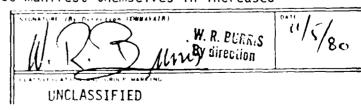
Encl: (1) MAVAIR Consolidated Priority List - Aircraft Systems Fleet Support

Projects 10 October 1980

(2) Schedule

3. Technical Instructions.

- a. Title. IDENTIFICATION AND REVIEW OF AIRCREW AUTOMATED ESCAPE SYSTEM (AAES), IN-SERVICE RELIABILITY AND MAINTAINABILITY PROBLEMS
- b. Purpose. To establish a systematic investigation of in-service AAES data, such as that contained in the 3-M System, Unsatisfactory Reports, Medical Officer Reports of Aircraft Accidents, and Naval Air Rework Facility Data Systems, to identify for potential corrective action the many daily low-grade problems which contribute to the general lowering of AAES in-service reliability and cause the general worsening of AAES in-service maintainability.
- c. Background. At present there exist special arrangements for investigating and correcting spectacular AAES in-service problems, particularly those which cause fatalities. This effort is intended for reviewing the pervasive non-spectacular low-grade AAES in-service reliability and/or a general degradation of AAES in-service maintainability. These problems, vastly overshadowed by the spectacular ones, nonetheless are important, and if left unmonitored and uncorrected, occasionally manifest themselves in fatalities, serious injuries and/or very great difficulties experienced by the ejectee, which under slightly different conditions could have caused serious injuries. Some problems also manifest themselves in increased



^{1.} The XIXXXXXVORK UNIT ASSIGNMENT described below is assigned in accordance with the indicated effort level and schedule. Funding authorization for XIXXXXXX will be provided in separate correspondence. If this XXIXXXXXVORK UNIT ASSIGNMENT cannot be accomplished as assigned, advise the NAVAIR HQ cognizant code. No work beyond the planning phase will be accomplished unless the addressee has funde in hand or written assurance increof.



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DEPARTMENT OF THE NAVY

NAVAL AIR STATION NORFOLK, VIRGINIA 2351

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 - . Short Range

NA SESSEE LEAGUE CO.

. Long Range

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NAVORDSTA NAMRL PNCLA

NAMI PNCLA

NAVAL BIODYNAMICS LAB NAVAIREWORKFACS (6)

TYCOM - Safety; Flight Surgeons; Physiologists

OPTEVFOR

USAF; Representation from:

NORTON AFB WRIGHT PATTERSON AFB BROOKS AFB ANDREWS AFB KELLEY AFB

ARMY; Representation from:

FORT RUCKER ST LOUIS

NASA

LANGLEY AFB MANNED SPACE CENTER

CONTRACTORS

PRIME AIRFRAME

Grumman; Boeing; Vought; Douglas; McDonnell; Republic; Fairchild-Miller; Lockhead; Convair; Martin-Baker LTD, U.K.

OTHERS

Teldyne Ryan; Stencel Aero Engineering Corp.; Pacific Scientific; Talley; Biotechnology; Humanoid Systems; Dayton T. Brown; East-West Industries; Explosive Technology; Space Ordnance Systems; Person-System Integration; Advanced Logistics Management Inc.; University of Cincinati; Wayne State University; University of Southern California

FOREIGN COVERNMENTS (having similar AAES)

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DEPARTMENT OF THE NAVY NAVAL AIR SYSTEMS COMMAND WASHINGTON, D.C. 20361

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See NAVAIR 3900 8 or supersedurfor applicable details on completing this form.

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Director, Naval Weapons Eng Support Activity Systems Analysis Dept. (ESA Washington Navy Yard, Wash.	1_31)	A512-512C/184-4/1512-000-055	awt ND NO
Mr. Frederick C. Guill Al AV 222-7486	IR-531C	NORMAL CLASSIFICATION OF ATTON UNCLASSIFIED	

2. Cancellation, References and/or Enclosures.

Cancellation: Work Unit A5312B-04 dated 13 Dec 1979 and subsequent amendments

under AIRTASK A512-512C/184/0512-000-055 amend. 1.

Encl: (1) NAVAIR Consolidated Priority List - Aircraft Systems Fleet Support

Projects 10 October 1980 (2) Schedule

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maintenance efforts and costs and/or increased hazards to maintenance personnel. Since there at present is no systematic review of in-service AAES data, there is no valid method of identifying AAES in-service problems deserving management attention short of awaiting death, serious injury or major complaints. Thus NAVAIR is forced into a "squeaky wheel" reaction mode of operation versus the more desirable mode of allocating resources based on a continuous analysis of the total AAES in-service experience.

d. Detailed Requirements/Cost Estimates. \$90.0 K for FY-81 in support of applicable projects listed on enclosure (1) Priority List, to be obligated quarterly as follows: first quarter \$30.0 K, second quarter \$30.0 K, third quarter \$30.0 K. Program element - 78012N (0 & MN).

Continue establishment of a system for the systematic review of such sources of AAES in-service data as 3-M Systems, Unsatisfactory Reports, Medical Officer Reports of Aircraft Accidents, and Naval Air Rework Facility data systems, in a manner designed to identify and assess the significance of the many commonly occuring in-service problems affecting AAES in-service reliability and maintain-ability. The system outputs shall be structured to provide data of assistance to NAVAIR Headquarters in the management of the scarce AAES resources; e.g., problems experienced, frequency of occurrence, experience severity, potential severity, and range of activities and/or AAES experiencing the problems. Once established and documented the system(s) can be integrated into regular reporting systems to assure regular, early notification to NAVAIR Headquarters concerning in-service problems being experienced and should assist considerably in the identification of causes and development of remedial actions. In addition, perform specific analytical tasks of high priority as assigned.

- e. Detailed Program Plan. Not applicable.
- f. Field Activity Contact. Mr. G. Opresko, NAVWESA (ESA-31).
- g. Headquarters Technical Support. None.
- 4. Schedule. See Enclosure (2).
- 5. Reports and Documentation.
 - a. Reports.
- (1) Upon completion of each task, present data and findings in letter-type reports to NAVAIR Headquarters (AIR-531).
- (2) A semi-annual program review shall be held at NAVAIR in February and August with NAVAIR publishing a report of findings in March and September.

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W.U. A5312B-04 AIRTASK A512-512C/184-4/1512-000-055

- (3) NAVWESA shall report to the Commander, Naval Air Systems Command (AIR-512C) the man years and associated cost, cost of materials, travel and cost of contracts awarded by NAVWESA for this project. This report shall be submitted 1 May 1981 and 1 November 1981 for final status.
- b. Requirements for Future Planning Information. Prepare and submit to NAVAIRHQ (AIR-531) for approval, a letter-type project plan. The primary effort shall be for establishment of baseline data to aid in subsequent identification of trends and specific problems. Subsequent tasks shall be for extending previous analytical techniques and data sources investigating efforts to identify specific AAES in-service reliability and maintainability problems.
- 6. <u>Contractual Authority</u>. Contracts to perform all or portions of the Work Unit are hereby authorized within the funding indicated by the Work Unit cost estimate.
- 7. Source and Disposition of Equipment. Not applicable.
- 8. Aircraft Requirements. None.
- 9. Status of Applicable Funds. Funds for this Work Unit will be provided separately.
- 10. Security Classification. All prescribed work under this Work Unit is unclassified. In performing the prescribed work, access to information which is classified and/or to areas containing classified equipment may be required. Any reference to such classified material shall be in accordance with the applicable materials security classification. Particularly, reference to information concerning survivability/vulnerability shall be classified in accordance with OPNAVINST. C5513.2A, Encl. (63); OPNAVINST. S5513.8, Encl. (7).

Copy to: Addressee (3) NAVMATDATASYSGRU, Morgantown, W.Va. 26505 NAVAIRDEVCEN (CSD), Warminster NAVAIRTESTCEN (SY-70), PAXRIV NAVORDSTA (Code 5123), Indian Head - NAVORDSTA (Code 515), Indian Head NAVWPNCEN, China Lake (Code 64) NAVSAFECEN, Norfolk COMNAVAIRPAC, North Island **CGFMFLANT CGFMFPAC** NAVPLANTREPO, Bethpage NAVPLANTREPO, Dallas NAVPLANTREPO, Burbank NAVPLANTREPO, Long Beach AFPRO, St. Louis DCASMA (DCRA-GACB), Marietta

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SURVIVOR INJURY CITATIONS/ U.S. NAVY/EJECTIONS ACCOMPLISHED CLEAR OF AIRCRAFT AND INADVERTENT
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(EXCLUDING AV.8A & TA.7)

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SURVIVOR INJURY CITATIONS/ U.S. NAVY/EJECTIONS ACCOMPLISHED CLEAR OF AIRCRAFT AND INADVERTENT THROUGH THE CANOPY (EXCLUDING AV. 88 & TA 7)

COOK PRESENT CALABAM VOICEAN

	TOTAL EJECTEES SURVIVORS 179 MAJNED SURVIVORS	TOTAL EJECTEES 237 SURVIVORS 179 MAURED SURVIVORS 155	.=						JAN 1969	JAN 1969 - DEC 1979	979										
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FATALITY INJURY CITATIONS/U.S. NAVY/EJECTIONS ACCOMPLISHED CLEAR OF AIRCRAFT & INADVERTENT (EXCLUDING AV 8A, TA-7, & ALL DROWNINGS)

JAN 1969 - DEC 1979

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FATALI RECOV	MONTATUMMA (ED)	١	-	F F	Ţ	:	a la	1	2	=	*		2 4	2 -2	2	3	٦,	2	,		4	=	7		_	
TOTAL FATALI RECOV	MONTATUMMA (ED)	1 (01)	(20)	B 12	K (04	1		(22)	3	Ē	6 (19)	(11)	3	22	8	98 20 20	6	8		200		2	Ž.		<u> </u>	
TOTAL FATALI RECOV	MONTATUMMA (ED)	KUL (01)	FACE (02)	MOSE (22)	NECK 104		APM 136	1.80m (22)	WAIST (16)	MAMO (17)	1 LEG (10)	4 LEG (11)	KMEE (21)	F007 (13)	7 30	190) X /80	(0) NEW	ELVIS (B)	100	000 500	AMS	EART (24)	E S	1 ME M (19)	A.N.Y.S. (200	5
TOTAL FATALI RECOVE	POS POS BEO MONTATURMA (EQ)	. *	FACE (02)	MOSE (22)	NECK 104		20 May 13	E1.80m (22)	191 TS1844	MANO (17)	PPER LEG (10)	WERLEG (11)	KMEE (21)	F007 (13)	(90) 7 30 BYON	THORAX (06)	ABDOMEN (07)	PELVIS ION	1001 1001	UTTOCKS 1000	OMGAMS	MEART (24)	LUMOS (78)	CTMER (19)	SV PARTS (26)	0v (00)
TOTAL FATALI RECOV	DAGMOSES DAGMOSES DAGMOSES MONTATUMA (CO)		FACE (92)	MOSE (22)			CONTENT AND 114	E1.80m (22)	(31) TSIRM	HAND (17)	UPPER LEG (10)	LOWER LEG (11)	KMEE (21)	F007 (13)	THORNOUS Y	THOR/X (06)	ABDOMEN (07)	PELVIS (DE)	TOTAL STATE	BUTTOCKS 1000	NAL ORGANS	HEART (24)	LUMGS (75)	OTMER (19)	BODY PARTS (26)	900 A (00)
TOTAL FATALI RECOVI	POS POS BEO MONTATURMA (EQ)	HEAD/NECK. SKULL (0))	FACE (92)	NOSE (22)		AMMS	CONTRA A DAME (194)	E1.80m (22)	(9) LSI WAR		LEGS: UPPEN LEG (10)	(() D31 434001	KMEE (21)	F007 (13)	TRUMK SHOUNDER 108)	THOR/X (06)	ABDOMEN (07)	WELVIS ION	CALL MONEY	BUTTOCKS 1000	INTERNAL ORGANS	ME ART 124)	LUMOS (76)	OTHER (19)	MULT BODY PARTS (20)	TOTAL BODY (00)

FATAL INJURY CITATIONS/U.S. NAVY/EJECTIONS ACCOMPLISHED CLEAR OF AIRCRAFT AND INADVERTENT
JETTISONED CANOPY
(EXCLUDING AV.8A & TA.?)
(OV.10 MOVED TO THROUGH-THE-CANOPY)

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JANUARY 1969 – DECEMBER 1979

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FRACTURE (36)

FRACTURE (12)

FRACTURE (13)

FRACTURE (13)

FRACTURE (13) - ----VENTEBRAL C1 TS TS LS SACRUMACOCCYX BODY PART INJURED (99) DISONING SYSTEME (96) EXTREME (96) SYSTEME (96) EXTREME (96) ODDE NOT IN SAFECEN 55 ō (SS) EWORRAGE PERFORATION (32) HOTAROS (36) -9--(96) (62) (62) (90) (90) (90) (90) (90) DENDS 148 EMBOLISM/ (29) HEMORRHAGE (33) BIN YRUENI BRUTRUR LIATA THONS
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(00) MOITATU9MA (EQ) MOISJUVA (MO) SHOULDE R 1084
THORAX (108)
ABGOMEN (107)
THE LYSE (109)
GROW (23)
BACK (198)
BACK (198)
NYTERNAL ORGANS FACE (02) FACE (02) NOSE (22) NECK (04 LOWER ARM 114)
LOWER ARM 115)
ELBOW (22)
WRIST (16) LOWER LEG 1104 KNEE (21) AMKLE (22) FOOT (23) LUNGS (25) OTHER (19) MULT BODY PARTS (20) DIAGNOGIS TOTAL BODY (00) HEAD/MECH BODY PART MJURED 100

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FATAL INJURY CITATIONS/U.S. NAVY/EJECTIONS ACCOMPLISHED CLEAR OF AIRCRAFT AND INADVERTENT THROUGH:THE:CANOPY (EXCLUDING AV.8A & TA.7)

| No. | No. | No. | No. | No. | No. |

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DROWNINGS INJURY CITATIONS/U.S. NAVY EJECTIONS ACCOMPLISHED CLEAR OF AIRCRAFT & INADVERTENT (EXCLUDING AV.8A & TA.7)

JAN 1969 - DEC 1979

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DROWNING INJURIES/U.S. NAVY/EJECTIONS ACCOMPLISHED CLEAR OF AIRCRAFT AND INADVERTENT
JETTISONED CANOPY
(EXCLUDING AV.8A & TA.7)

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JANUARY 1969 - DECEMBER 1979

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DROWNING INJURIES/U.S. NAVY/EJECTIONS ACCOMPLISHED CLEAR OF AIRCRAFT AND INADVERTENT THROUGH:THE.CANOPY (EXCLUDING AV.8A & TA.7)

JANUARY 1969 -- DECEMBER 1979

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IC.2 FATALITY INJURY CITATIONS/U.S. NAVY/EJECTIONS ACCOMPLISHED CLEAR OF A/C

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(CODES: 1 & 5)

JAN 1969 ~ DEC 1979

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IC:3 SURVIVOR INJURY CITATIONS/U.S. NAVY/EJECTIONS ACCOMPLISHED CLEAR OF AIRCRAFT

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(CODES: 1 & 5)

JAN 1969 - DEC 1979

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ž š	WOUTATIONS (50) (60)		- 199	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	(22) J	CK (04)		*-**	W (22) W	14 (10)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	(1)	(12) 3)				180 ×	N (0)	18 (1981)			(\$(08)	2	10 m	(86)	10013		
ž š	WOUTATIONS (50) (60)		FACE (02)			NECK 104		*-**	1, BOW (22)	WAIST (16)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1000000	W166(11)	RMEE (23)				ORAX (OE)	OMEN (02)	1 Jee 1991	GROIN (23)	BACK (18)	TOCKS (00)	PGANS	(March 128)	STHER (19)	ARTS (20)		
ž š	MOLTATUMAN WORLTA		FACE (00)	H	-	NECK (04		*-**	Et 80w (27)	WAIST (16)	HAND (17)	101 031 03400	COMERTEG (11)	RNEE (21)	ANKLE (12)		200 a De Bright	THORAX (06)	ABDOMEN (97)	PELVIS 100)	GROIN (23)	BACK (18)	BUTTOCKS (0B)	N. ONGANS	1.UMGS (25)	OYHER (19)	XDV PARTS (20)		
ž š	PARTITION OF THE PARTIT		FACE (40)				(V) 70 × 0 × 0	CONSTRUCTION OF THE PROPERTY O	Et BOW (22)	MRIST (16)			LOWERLEG (11)	KNEE (21)		F00T (13)	Security Sec	THOMAX DE	ABDOMEN (07)	PELVIS 100H	GROIN (23)	BACK (18)	Bultocks (08)	HINAL ORGANS		OFWER (19)	T BODY PARTS (20)		At 8000 1000
ž š	WOUTATIONS (50) (60)		FACE (60)	H				*-**	Et 808 (22)	WAIST (16)		801 931 W3440	LOWER LEG (11)	KNEE (21)	ANKLE (12)	F00T (13)		THOMAX (DE)	ABDOMEN (97)	1 Jen 1941	CROIN (23)	BACK INBI		INTERNAL ORGANS	CARCS (XX)	OFHER (19)	MULT BODY PARTS 120		TOTAL BOODY 1999

IC 3 FATALITY INJURY CITATIONS/U.S. NAVY/EJECTIONS ACCOMPLISHED CLEAR OF AIRCRAFT

(CODES: 1 & 5)

JAN 1969 - DEC 1979

Compared Compared		TOTAL EJECTEES: 124 FATALITIES: 14 RECOVERED: 10 LOS	TEES: 124 : 74 : 10 LOGT:	•	i					BOS NAL	e - DEC 1979	r r										
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(CODES: 1& 5)

JAN 69 -- DEC 79

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IG.2 FATALITY INJURY CITATIONS/U.S. NAVY/EJECTIONS ACCOMPLISHED CLEAR

(CODES: 1 & 5)

JAN 69 - DEC 79

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	LAW PRINCE (13) LOOK STATE (14) LOOK STATE (14) LOOK STATE (15) LOOK S	100 170185	*-*, * * * * * * * * * * * * * * * * * * 					* * * * * * * * * * * * * * * * * * *	TACT RECORD 15		HAND (17)							OPAX (06)	CONFER (G)	* * * * * * * * * * * * * * * * * * *			1GANS	ME AA7 (24)	COMOS (ZE)	011681189			8
	LI LEWING LIST LIST LIST LIST LIST LIST LIST LIST	(i)	*-*, * * * * * * * * * * * * * * * * * * 					* * * * * * * * * * * * * * * * * * *	CLI MININE LI MANO		HAND IT							THORAX (db)	ABCOME N (5)	* * * * * * * * * * * * * * * * * * *			CONCANS	HEART (N)	(F) (SE)	0178710	A PARTICIPATION OF THE PROPERTY OF THE PROPERT		(60) ACC
	LEVELLE LIST LOOK LIS	(i)	*-*, * * * * * * * * * * * * * * * * * * 			MECK (94		IN I WAS IN INC.	ACT BEING 13						<u>1_ </u>	¥	SHOULDER (0%)	PHORAX (db)	ABCOME II (02)	* * * * * * * * * * * * * * * * * * *			THALLONGAMS	HEART (24)	(RZ) (SMO)	OTHER CO	SCI SANG ACCE		(60) A000 T
	LEVELLE LIST LOOK LIS	(i)	*-*, * * * * * * * * * * * * * * * * * * 			MECK (94		* * * * * * * * * * * * * * * * * * *	COLUMN 13							NO.	SHOULDER (0%)	THORAX (06)	ABCOMEN (0)	* * * * * * * * * * * * * * * * * * *	E TOURS AND A TOUR AND	BUTTOCKS (68)	ATERNAL ORGANIS	HE ART (24)	LUNGS (ZE)	OVERALES	THE COLOR PARTY (NO.		07AL BODY (00)
	LI LEWING LIST LIST LIST LIST LIST LIST LIST LIST		*-*, * * * * * * * * * * * * * * * * * * 			MECK (94	SWYV	* * * * * * * * * * * * * * * * * * *	CLI INITY II JAMON'S			5911				MANUAL MA	SHOULDER (0%)	THORAX (db)	ABCOME (9)	* * * * * * * * * * * * * * * * * * *	E TOURS AND A TOUR AND	BUTTOCKS (68)	INTERNAL ORGANS	HEART (34)	(RZ) (2007)	OVER 145	SC S NA T ACCOUNT A MAN		707AL BODOY (608)

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MK-F7 FATALITY INJURY CITATIONS/U.S. NAVY/EJECTIONS ACCOMPLISHED CLEAR OF A/C AND INADVERTENT

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(CODES: 1 & 5)

JAN 1969 - DEC 1979

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Į.	NOIZARBA	<u> </u>	Ц	Ц	1	ļ.	_	Ц	1	1	1		ļ	L	۲		1	1	Į.	1	Ц	_	Ļ	_	\square	Ш
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- 1	AMOTAM3H (BS)	Γ	П	П	T	T		П	1	T	T	1	T	Γ	٦		П	Ţ	T	Γ	Г	Γ	Γ	Γ		
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1	JANRĪTNI (MJ) YRULNI		Г	П	Т	T			Ī	Τ	Ţ	T	Ţ	Т			П	Ī	T	Γ	Г		Τ			
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	(36) CRUSHING	Η-	t	H	+	†	_	Н	+	+	+	+	+	+	Н	_	Н	+	+	+	t	\vdash	+	\vdash	†	\vdash
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	INJURY DIAGNOSIS	SEC101 (03)		×	MOSE (22)	MCCK (F	UPPER ARM (14)	LOWER ARM 115	Š	WRIST (16)	ş	UPPER LEG (10)	LOWEN LEG (11		F007 139	SHOUL DER 1061	THORAX (06)	ABDOMEN 107	PELVIS (00	BACK 18	BUTTOCKS 108	Ş.	LUMICS (25)	OTHER (19)	WULT BODY PARTS (20)	_
	T Y	ã	1	П	Z	1	¥	ERA	3	1	Ē	H		Ž	z	3	ğ	8		5	ě	Š		ō	A	8
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MK GRU7 SURVIVOR INJURY CITATIONS/U.S. NAVY/EJECTIONS ACCOMPLISHED CLEAR OF AIRCRAFT & INADVERTENT

(CODES: 1 & 5)

JAN 1969 - DEC 1979)

TOTAL EJECTEES: 38 BURIVIVORS: 26

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ſ	MIARTZ (BC)		Γ	Ι			П	Γ		Γ		П		П	1				Ţ		T	Ī	Ī				П	П	
Ì	DISLOCATION (84)		T		٦		7	Τ			П			П	7	7			П	1	1	7	1			1	П	П	
Ì	FRACTURE (26)	Г	T	T	↿		T	T	I		П	1	T	П	1	1		Ī	7	1	7	1	1	Τ	Π		Ħ	П	
ł	(SI) 3RUTOAR?	┢	t	1	┪	d	\dagger	t	٦	۲	H	Н	T	Н	7	1	+	Ħ	1	1	1	_	~	+	П	7	tt	11	7
ŀ	FRACTURE (09)	-	t	+	┪	٦	+	t	┪	Н	H	\dagger	t	Н	7	1	+	Н	1	†	1	1	†	T	Н	+	Ħ	††	٦
ŀ	COMMINUTED (47)	⊢	t	+	┪	-	+	t	-	Η	Н	+	-	Н	┪	+	+	Н	+	+	+	+	+	+	Н	+	H	╁	۲
ŀ	TRANSECTION	⊢	+	+	4	Н	4	ŀ	_	H	Н	+	H	Н	4	4	-	Н	-	+	+	+	+	+	Н	4	╁	++	_
ļ	PACHOESS DAGGESS PACHOESS PACH	VERTEBRAL	T6 - 15	CRUM/COCCYX		C1 - C2	TA T.	97 17		5	2	88	8	3	5	=	22	14	2	=	7	-	7	111	T12	5 2		91	ERMORCE
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Ì	MULTIPLE EXTREME (98)	Γ	Ţ	Γ	П	٦		Γ	Г		П		Γ	П	1	1		П	1	1	1	1	1		П			Γ	
ľ	SYSTEMIC (65)	Г	Ť	1	П	П		Τ	П	Г	П			П	7	†		П	7	1	1	1	†		П		T	T	_
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ŀ	UNKNOWN/OTHER	Т	t	1	Η	H		t	H	۲	H		t	Н	7	†		Н	7	†	†	+	1	_	Н		1	T	Н
ŀ	DROWNING (01)	T	-	1	Н	ᄇ	,	1	7	T	礻	-	T	H	7	7	~	Н	7	+	+	+	†	-	Н	_	⇈	T	٦
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ŀ	HEMATOMA	-	+	+	Н	Н	-	+	۲	\vdash	H	\vdash	╁	Н	1	4		Н	Н	+	+	+	+	_	Н	-	\vdash	+	4
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	## MOITATUMA ##		100	100.363	NOSE (22)	MECK (OF		A ARIA (15)	E180# (22)	WALST 16	HAMD (17)	50 LEG (10)	FR 1 6G (11)	KMEE (21)	ANKLE (12)	F00T (13)	UKDER 108:	HOHAX (06)	(DOMEN (07)	PELVIS (09)	GROIN 123)	BACK (18)	TTOCKS (08)] [] [HEART (24)	1 UNGS (25)	OTHER (19)	PARTS (20)	(00)	
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	## MOITATUMA ##		COUNTY STATE	1	1		ARMS	LOSE & ARK 15	£1.80e (22)	191 1 19 MM	HAND (17)	LEGS LEGGIO	LOWER 1 6G (11)	KNEE (21)			TRUMK SHOULDER 1061	THORAX (08)	ABDOMEN (07)	PELVIS (09)	GROIN (23)	BACK (18)	BUTTOCKS (08)	INTERNAL ORGANS HEART (24)	1 UMGS (25)	OTHER (19)	MULT BODY PARTS (20)	TOTAL BODY (90)	

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MK GRU7 FATALITY INJURY CITATIONS/U.S. NAVY/EJECTIONS ACCOMPLISHED CLEAR OF AIRCRAFT & INADVERTENT

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(CODES: 1 & 5) JAN 1969 – DEC 1979)

HIVELS FRACTURE (26) (47) (47) COMMINUTED FRACTURE (09) FRACTURE (18) C1 - 15 T6 - L5 SACRUM/COCCYX C1 - C7 11 - 76 16 - 112 INJURY DIAGNOSI BODY PART INJURED SYSTEMIC (66)
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EXTREME (98)
ODE NOT IN SAFECEN
(85) (29) (SZ) (20) DITELODA TRAUMA (02) MOIZUTNOD (31) (31) HOTARO 1807 (64) (33) (33) (33) (29) (29) (29) (49) (49) SHOCK (60) OM3H\OMU3W OM3H\OMU3W (85) XAROHT SITAMUARI (14) TEAR MUSCLE OISLOCATION # E TOTAL EJECTEES: 3 FATALITIES: 12 RECOVERED: 7 LO VISCERATION DECAPITATION NOITATURMA (E0) NOIZJUVA (A0) SHOULDER (05)
THORAX (06)
THORAX (06)
ABOMEN (07)
RELVIS (08)
GROIN (27)
BACK (18)
BUTTOCKS (08)
INTERNAL ORGANS LOWER ARM (14)
LOWER ARM (15)
ELBOW (22)
WRIST (16)
HAMD (17) LOWER LEG (10)
LOWER LEG (11)
KINEE (21)
ANKLE (12)
FOOT (13) FACE (02) FACE (02) FACE (02) NOSE (22) NECH (04 MULT BOOY PARTS (20) INJURY DIAGNOSIS TOTAL BODY (00) HE AD MECK BOOV PART INJURED TRUME 531

A 6 INJURY CITATIONS/U.S. NAVY/EJECTIONS ACCOMPLISHED CLEAR OF AIRCRAFT & INADVERTENT

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(EXCLUDING EA-68)

JAN 1969 - DEC 1979

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EA-6B INJURY CITATIONS/U.S. NAVY/EJECTIONS ACCOMPLISHED CLEAR OF AIRCRAFT & INADVERTENT

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MK GRU7A SURVIVOR INJURY CITATIONS/U.S. NAVY/EJECTIONS ACCOMPLISHED CLEAR OF AIRCRAFT & INADVERTENT

JAN 1969 - DEC 1979 (CODES: 1 & 5)

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MK GRU7A FATALITY INJURY CITATIONS/U.S. NAVY/EJECTIONS ACCOMPLISHED CLEAR OF AIRCRAFT & INADVERTENT

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(CODES: 1 & 5)

JAN 1969 – DEC 1979

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MK H7 SURVIVORS INJURY CITATION/U.S. NAVY/EJECTIONS ACCOMPLISHED CLEAR OF AIRCRAFT & INADVERTENT

(CODES: 1 & 5)

JAN 1969 - DEC 1979	

TOTAL EJECTEES: 348 BURVIVORS: 286 INJURED SURVIVORS: 187

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EOMEIGN BODA	╁-		f	H	+		-	Н	_	+	_	H	Н	÷	+	4	+	7	+	+	+	Ŧ	_	+	+	_	\vdash	+	_
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BENDS (49)	-	+	Н	H	+	_	-	Н	+	+	_	Н	Н	+	+	4	+	+	+	+	+	+	_	╀	+	4	<u> </u>	+	_
WS1708W3	 	+	H	Н	+	_	+	Н	+	+		۲	Н	+	+	-	+	+	+	+	+	+		+	+	_	-	+	_
(EE) 3DAHRROM3H	┝	t	Н	Н	+	_	-	Н	4	+		Н	Н	+	╀	4	4	+	+	+	ł	╁		╀	╀	4		╀	4
INJURY (84)	⊢	╁	Н	Н	+		H	Н	+	+	_	Н	Н	+	╀	4	+	+	+	+	╀	╀	_	⊦	╀	4	_	╀	4
SHOCK (60)	⊢	F	Н	Н	+		_	Н	+	+		H	Н	4	╀	4	Ť	7	╀	+	╀	╀		Ļ	╀	4	_	╀	4
(85) XAROHT DITAMUART	├	╀	Н	Н	╁	_	-	Н	+	+		Н	Н	+	╀	4	+	╁	+	╀	╀	╀	_	L	L	4		╀	4
(NON FATAL) (74) OM3H/OMU3N4	├	╀	₩	Н	╁		Н	Н	+	+	_	Н	Н	+	+	4	7	+	╀	╀	ł	╀	-	۲	┞	4	_	┡	4
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COFD INTIBA	H	H	Н	H	+	-	Н	Н	+	+	-	Н	+	+	╀	4	+	╁	╁	╀	Ł	╀	_	L	L	4		7	4
ONCONSCIONSMESS (13)	<u>-</u>	┝	Н	+	$^{+}$	-	Н	Н	+	+	-	Н	4	+	╀	4	+	╀	╀	╀	Ļ	╀	_	L	Ļ	4		├	4
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(9C)	<u> </u>	╁	₩	-		\dashv	Н	7	+	+	-	-	-+	7	+	7	+	+	+	3	1	H	_	H	\vdash	4		⊢	4
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(46) DISLOCATION	—	\vdash	H	+	+	-	+	7	+	+	\dashv	+	+	\dotplus	+	~	+	+	H	+	H	1	4	Н	\vdash	4		-	4
DEMANGEMENT	\vdash	Н	H	+	+	+	4	+	+	+	4	4	+	+	╀	+	1	+	H	H	H	\vdash	4	Ц	_	4	_	-	4
CBUSHING (28)	\dashv	H	H	+	╀	╛	4	+	+	+	+	+	+	+	+	+	+	+	╀	\vdash	L	L	4	Ц	_	4		<u> </u>	4
FRACTURE (12) SIMPLE FRACTURE	-	H	H	+	+	-	4	+	ľ	7	7	7	7	+	1	7	1	Ŧ	-	L	L	L	4	Ц	_	4		L	4
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FRACTURE (10) COMPOUND COMMINUTED (11) FRACTURE (11)	-	Н	H	+	╀	\dashv	4	+	+	+	-	4	4	+	╀	+	\downarrow	+	-	H	Ļ	L	4	4	_	4	_	_	4
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DECAPITATION (06)	-	4	+	+	+	+	+	+	+	╀	+	+	+	÷	\vdash	+	+	H	Н	Н	4	L	4	4		+	_	_	4
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MK-H7 FATALITY INJURY CITATIONS/U.S. NAVY/EJECTIONS ACCOMPLISHED CLEAR OF AIRCRAFT & INADVERTENT

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(CODES: 1 & 5)

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ŀ	SASTEMIC (BS)	-	₽	Н	+	╁	+	+	H	Н	_	Н	+	-	├	+	H	Н	+	4	+	_	Н	_	-	1	_
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1	(55) UNKNOWN/OTHER		dash	H	+	+	4	+	μ	Н	<u> </u>	Н	4	+	 	+	Ή	Н	+	4	+		4		-	+	
ı	DHOWNING (01)	-	4	H	+	+	4	+	μ.	Н	_	Н	4	-	-	+	H	Н	+	4	+	_	H	—	-	2	_
ı	VOIZARBA	\vdash	+	H	+	+	4	+	H	Н	_	Н	+	_	\vdash	+	H	Н	+	4	+	_	Н	_	\vdash	+-	_
ı	(SE)	-	1	H	+	+	+	+	\downarrow	Ц	-	Н	4		\vdash	Ŧ	1	H	1	4	+		Н	_	₩	+	_
ı	(48) HEMATOMA	Ľ	1	Н	4	╁-	4	+	H	Н	L	Н	4		┞	+	Ļ,	Н	4	4	+	_	Н		<u> </u>	╀	
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ł	TRAUMA (02)	۲	-	H	+	╀	\downarrow	+	+	Н	-	Н	-	+	ļ.,	+	╀	Н	-	4	+		Н	<u>-</u>	⊬	┼	_
ı	(è0) DITZUODA	-	╀	\forall	+	+	+	+	╀	Н	\vdash	H	+	+	╁	+	╀	Н	+	4	+		Н	_	⊢	+	_
J	(34) BITE	-	╀	H	+	+	+	+	+	Н	-	Н	\dashv	+	+-	+	┝	Н	+	4	+	_	Н	 	\vdash	+	_
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ı	NOITAROTR39	-	}	H	+	+	4	+	+	H	H	H	H	-	-	+	\vdash	Н	4	4	+		Ц	<u> </u>	-	┼	
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	(50) THERMAL BURN	1	1	Ц	4	1	4	4	4	Ц	<u>_</u>	Ц	Ц			+	L	Ц	4	_	4		Ц	_	-	╀	
	BENDS (49)	-	\downarrow	H		Ł	4	+	+	Ц	-	Н	Ц	+	-	#	1	Ц	4	4	4		Ш	<u> </u>	 	+	_
ı	EMBOLISM/	ļ_	Ļ	Ц	+	Ļ	\downarrow	+	+	Ц	-	Н	J		┞	+	1	Н	4	4	4		Ш	<u> </u>	╀	╁	
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Į	(88) YRUTAUR 3RUTAUR	L	╀	Н	+	╀	+	+	H	Н	_	1	Н	+	L	f	1	Н	4	4	+	~	Ц	<u> </u>	⊢	╀	
- {	SHOCK (60)	<u> </u>	\perp	Н	4	╀	4	+	μ	Н		Н	+		⊢	+	L	Н	4	4	4		Н	-	├-	╀	_
ı	(81) XAROHT DITAMUART	┝	+	H	+	╀	+	+	₽	Н	_	Н	Н	+	⊢	4	╀	Н	4	4	+	_	Ц	-	├-	۳	
ı	PNEUMON-FATALI (74)	⊢	+	Н	+	╀╌	+	+	+	Н	Ŀ	Н	Н	+	╀	╪	-	Н	+	+	+		-	-	├	╀	-
ŀ	NOISH3MBUS	┝	╀	Н	+	╁	+	+	+	Н		Н	Н	+	╁╌	╁	╀	Н	+	+	+		Н	-	⊢	╁	_
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ı	ONCONSCIONSMESS	┝	╀	Н	+	╀	+	+	H	Н		Н	Н	+	╁	┿	╀	Н	4	4	+	-	Н	<u> </u>	╀	╀	
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ı	(34) TEAR MUSCLE	 	+	Н	+	╁	+	+	+	Н	_	Н	Н	+	\vdash	+	1	Н	+	4	+		Н	-	+	╀	_
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ı	OERANGEMENT	┢	╁	Н	╁	╁	+	+	┿	Н		Н	Н	+	┢	+	╀	Н	+	┪	+		Н	\vdash	├	╁	_
ı	CHUSHING (26)	۱,	+	Н	+	+	_	+	+	H	-	2	H	+	+	_	+	Н	+	+	+		Н	-	9	+	
- 1	FRACTURE (12) SIMPLE FRACTURE	۲	+	Н	+	+	7	+	+	Ĥ	۳	Н	H	7	+	7	1	F	+	+	+		Н		f	+	_
ı	FRACTURE (11)	\vdash	+	H	+	+	+	+	+	Н	<u> </u>	Н	H	+	\vdash	+	+	Н	+	+	+	_	Н	-	\vdash	+	_
ı	COMPOUND (10) FRACTURE (10) COMPOUND COMMINUTED	۲	+	H	+	+	+	+	+	H	~	Н	H	+	+	+	+	Н	Н	+	+		Н	-	+	+	_
2	COMMINUTED FRACTURE (09)	H	+	H	+	+	+	+	+	Н	<u> </u>	Н	\forall	+	+-	+	+	Н	+	+	+		Н	-	\vdash	+	_
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5	WOITAWILIOWARX3	H	+	H	+	+	+	+	+	Н	\vdash	Н	Н	+	+	+	+	H	+	+	+		Н		\vdash	+	_
8	(19) TRANSECTION	\vdash	+	Н	+	+	+	+	+	۲		Н	H	+	+	Ŧ	-	H	\forall	+	+		Н	\vdash	+	+	-
ä	EVISCERATION TO STATE OF THE ST	\vdash	+	H	+	+	+	+	+	\vdash	-	h	H	+	+-	+	1	Н	4	-	+		Η	\vdash	+	╁	-
¥¥.	DECAPITATION	 	+	H	H	+	+	+	+	H	<u> </u>	Н	H	\dagger	+	+	-	Н	+	1	+		Н	-	+	+	_
RECOVERED:	(EG)	H	+	H	+	+	+	+	+	H	<u> </u>	Н	H	+	+	+	1	H	H	+	+		Н	-	+	+	-
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	BOOV PART INJURED	HE AD/NECH				ARMS	- 1				1665			1	TRUNK					į		INTERNAL ORGANS HEART			MULT BODY PARTS (20)	TOTAL BODY (00	

STENCEL SEU:3/A SURVIVOR INJURY CITATIONS/U.S. NAVY/EJECTIONS ACCOMPLISHED CLEAR OF AIRCRAFT

Course assesses assesses assessed assessed a

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(CODES: 1 & 5)

JAN 1969 - DEC 1979

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I	(14) UNKNOWN/OTHER (99)										ļ									1	Ĺ	L		Ш						
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ı	COMMINUTED (20)			Γ	Ī	1	I	I						I		Ι			Ι							T	Τ	П		
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NON-DROWNING, NON-MULTIPLE.EXTREME, NON-GROUND-IMPACT FATAL INJURY CITATIONS/U.S. NAVY/ EJECTIONS ACCOMPLISHED CLEAR OF AIRCRAFT AND INADVERTENT JETTISONED-CANOPY (1 & 5 LESS TA.7 & AV.8)

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JANUARY 1969 – DECEMBER 1979

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NON-DROWNING, NON-MULTIPLE-EXTREME, NON-GROUND-IMPACT FATAL INJURY CITATIONS/U.S. NAVY/ EJECTIONS ACCOMPLISHED CLEAR OF AIRCRAFT AND INADVERTENT THROUGH-THE-CANOPY (1 & 5 LESS TA-7 & AV-8)

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128) HEMORRHAGE 1951	\vdash	\coprod	1	_	1	Ц		\perp	П	\perp	\Box		\prod		L	\prod			
AMOTAM3H	<u> </u>	4	4	_	1	Ц	1_	L	Ц	_	\downarrow	\perp		Ţ	L				
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OS)	ļ-,	Η,	+	<u>_</u>	-	-	┞	Н	4	+	ᆜ.	++	+1	4	L	41		4	_
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IN ORIFICE (20)	\dashv	+	+		+	+	-	H	+	+	+	1	++	+	├-	$\downarrow \downarrow$	1	4	
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INFARCT (50)	_	\forall	\forall	4	+	+	\vdash	Н	+	+	+	Н	++	+	-	╁	- '	4	-1
BEND2 (48) EMBOLISM	7	11	$\dagger \dagger$		++	+		H	+	+	$^{+}$	H	$\dagger \dagger$	+	-	++	+	+	\dashv
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DISLOCATION (46)	+	#	H	+	+	H	+	+	+	+	H	+	4	+		+	+	+	4
THEMSCHENT	\dagger	#	$\dagger \dagger$	\dagger	+	+	+	\dagger	1	+-	++	+	+	+	-	+	+	+-	4
CRUSHING	+	#	1	\uparrow	#	\dagger	+	†	1	╁	$\dagger \dagger$	+	+	+	-	+-	+	+-	\mathbf{H}
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IZLI 3MD I DAM 4 1	_	\prod	$ \uparrow $	1	1	$ \uparrow \rangle$	+	+	+	1	++	+	+	+	+	+	╫	+	+
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	FACE (02)	100 FVE	MECH (OF	OWER ARM (15)	WAIST (16)	HAND (17)	LOWER LEG (11)	KNEE (21)	FOOT (13)	SHOULDER 1051	ABDOMEN (02)	PELVIS (09)	BACK 18	INTERNAL ORGANS	HEART (24)	OTHER (19)	MULT BOOY PARTS (20)	101AL BODY (00)	
BODY PART MACHED HEADNECK	٠.	i	ARMS			ſ	: -			130 E	Ĺ	1	ļ	RAA	:	i	6	A BK	1
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TOTAL NON-GROUND-IMPACT, NON-MULTIPLE EXTREME FATAL INJURY CITATIONS/U.S. NAVY/ EJECTIONS ACCOMPLISHED CLEAR OF AIRCRAFT AND INADVERTENT (EXCLUDING AV8 & TA.7)

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JANUARY 1969 - DECEMBER 1979

FAI	BEOOV DIALON DIALON PART THURS WOITATUNA	MEAD/MECK SKULL (01)	FACE (02)	EVE 1031	MOSE (22)	NECK 104	ARMS	UPPER ARIB (14)	LOWER ARM (15)	(27) MORT	ST. CHAN	(ALDERE		LOWER LEGISTS	L	AMKLE (12)	F007 (13)	TRUNK	TANDRAW (DE)	ARCOMEN 1071	PELVIS (09)	GROIN (23)	BACK (18)	BUTTOCKS (06)	INTERNAL ORGANS	ST SOME	100000	F100	MULT BODY PARTS (20)	TOTAL BODY (00)
FATALITIES: 42	DECEMBLATION (06)	~	H	H		1	_	1	1	+	+	1	_	L	-	L		_		+		-	H			+	-	_		
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	NOTSERVENTON (44)		L	H	Ц	-	_	1	1	-	Ŧ	I							Ŧ	T	[L	F			Ŧ	1	_		
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	GOMPOUND (07) SAUTZART (07) SAUTZART (17) SAUTZART	~	H	H	H	_	_	+	4	+	+	+	_	-	L	L	Н		+	+	+	Ļ	Ĺ	L	L	+	+	_	7	
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	CHUSHING (26)	_	+	-	Н			m	_	+	<u> </u>	-	_	,,,	1	1	H	L.	1		-	+	H	-	L	1	+			<u> </u>
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TOTAL NON-GROUND-IMPACT NON-MULTIPLE EXTREME OVER LAND FATAL INJURY CITATIONS/U.S. NAVY/ EJECTIONS ACCOMPLISHED CLEAR OF AIRCRAFT AND INADVERTENT (EXCLUDING AV-8 & TA-7)

JANUARY 1969 - DECEMBER 1979

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(33) HEMORRHAGE		+	+-	H		+	+	Н	Н	_	t	۲	7	+		L		$^{+}$	t	t	┢	+	+	_	┼-	╁	4
(88) YAULN! 3RUTAUR	-	+	+	Н	_	t	╁	Н	Н		╁	+	+	+	-	F	Н	$^{+}$	╁	+	╀	+	+	_	 _	⊢	-
SHOCK (60)	-	+	┿	Н		+	╁	Н	Н	_	╁	۲	Н	+		┝	H	+	+	+	╀╌	+	4	_	-	┝	4
184) XAROHT DITAMUART	┪	$^{+}$	+	Н		+	$^{+}$	Н	Н		╀	H	H	+		2	Н	+	╀	+	╀	+	4		├	╀	4
INON FATAL) (74)	-	+	Н	H		+	+	Н	Н	_	╀	Н	H	+		F	-	+	+	+	╀	4	7	_	┢	-	4
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NON-GROUND-IMPACT, NON-MULTIPLE EXTREME OVER LAND FATAL INJURY CITATIONS/U.S. NAVY/ EJECTIONS ACCOMPLISHED CLEAR OF AIRCRAFT AND INADVERTENT (EXCLUDING AV.8 & TA.?)

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NON-GROUND-IMPACT, NON-MULTIPLE EXTREME OVER LAND FATAL INJURY CITATIONS/U.S. NAVY/ EJECTIONS ACCOMPLISHED CLEAR OF AIRCRAFT AND INADVERTENT (1 & 5 LESS TA-7 & AV-8)

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1	MALURY	SKULL (01)	FACE (02	Ē	MOSE (22)	5	UPPER ARM ITE	LOWER ARM (15)	EL BOW (22)	WAIST (16)	HAND (17)	UPPER LEG (10)	LOWER LEG IT	KNEE (21	FOOT		SHOULDER (05)	THORAXION	PELVIS (09)	GROIN (23	BACK (18)	BUTTOCKS (08	AGANS HEART (24)	LUMGS (25)	E	S		
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TOTAL NON-GROUND IMPACT, NON-MULTIPLE EXTREME OVER WATER FATAL INJURY CITATIONS/U.S. NAVY/ EJECTIONS ACCOMPLISHED CLEAR OF AIRCRAFT AND INADVERTENT (EXCLUDING AV.8 & TA.7)

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JANUARY 1969 -- DECEMBER 1979

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	SHOCK (60)	╀─	╁	H	Н	4		+	+	+	╀	╀	4	Н	4	+	+	_		Н	+	4	+	+		ŀ	H	4	_	╀	4
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	NOISSION (3E)	-	t	t	Н	7	_	t	t	$^{+}$	t	t	+	H	+	+	t	-	H	Н	+	+	+	+		H	-	+		├	┨
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	LIGAMENT (40)	┢	+	۲	Н	+		+	+	+	+	╁	+	+	+	+	+	-	Н	+	+	+	+	+		-	H	+		-	4
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ļ	CHUSHING		t	T	H	1		†	+	+	t	t	+	+	+	+	+	-	Н	+	†	†	†	\dagger		-	-	+		H	1
	SAUTDAR 4 25 (26)	T	T		H	1	-	†	+	†	t		1	-	+	+	\dagger	_	Ħ	+	+	+	†	+		-	T	1	_	H	┨
	COMPRESSION FRACTURE (12)	Г	T		H	†	_	†	+	†	+	T	+	+	+	+	†	_	Н	+	+	†	+	+	_	٢		+		۲	4
	COMPOUND COMMINUTED (11)	-		П	T	†		†	Ť	t	T	T	7	+	7	+	t	7	H	+	1	+	+	†			-	†		H	1
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8	EVISCERATION (91)				I	I	_	Ī		Ī	Γ	Γ	_	1	Ì	Ţ	T			1	1	1	1	Ť		П	Г	†	٦	Γ	1
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	MAJURY	אנחרו ופוי	FACE 102	F	MOSE (ZZ)		2	10	EL BOW (22)	WRIST (16)	HAMD (17)		9	اق	KNEE (21)	5		F 9 1	X	DOMEN (0)	200			٠,	HEART (24	LUNGS 1251	61) R3H10	1	2		ŀ
	PIAGNO		Ē	Π	Ž	1	UPPER ARM 1141	CONFR ARM 115		E	ž	1	UPPER LEG 1109	COMER LEG 115		5007 (13)	1	SHOULDER 105)	THORAX (06	ABDOMEN (07		5	OLIVE DACK		Į,	5	O TH	ا	4	<u>§</u>	I
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NON-MULTIPLE-EXTREME, NON-GROUND IMPACT, OVER WATER FATAL INJURY CITATIONS/U.S. NAVY/
EJECTIONS ACCOMPLISHED CLEAR OF AIRCRAFT AND INADVERTENT
THROUGH-THE CANOPY
(1 & 5 LESS TA.7 & AV.8)

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PROBLEM STREET, STREET,

JANUARY 1969 - DECEMBER 1979

FATALITIES OVER WATER 9

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(\$9)	-1		Γ	Γ	1		П	Г	†	1	Ħ	Н	1	†	Ħ	†	T	H	†	†	†	+	۲	T	t	††	+	††
FRACTURE (36)			h	Η-	t	Н	۲	-	†	t	Ħ	Н	+	+	H	+	t	Н	1	t	t	+	╁	╁	╁	H	╁	Н
FRACTURE (12)	┰	_	Н	-	╁	Н	Н	⊢	+	t	Н	Н	+	+-	₩	+	╀	Н	+	+	+	╀	╀	┝	╀	H	+	1
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SYSTEMIC (66)	<u>*</u> -	-	+	+	Н	_	+	+	╀	╀	┿-	4	+	\downarrow	4	_	Н	4	+	1	L	L	_	Ц	L	+	4	
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(58)	4	7	†	+	Н	-	Ť	+	Ť	t	+:	Ť	+	+-	+	-	Н	+	$^{+}$	+	H	\vdash	+	4	_	+	+	
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AM30:	_	+	+	+	H	_	+	+	1	+	-	+	+	1.	+	4	4	4	+	-	Ц	L	4	4	_	+	4	
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NON-GROUND-IMPACT, NON-MULTIPLE EXTREME FATAL INJURY CITATIONS/U.S. NAVY/
EJECTIONS ACCOMPLISHED CLEAR OF AIRCRAFT AND INADVERTENT
JETTISONED-CANOPY
(EXCLUDING AV8 & TA:7)

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JANUARY 1969 – DECEMBER 1979

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NON-MULTIPLE-EXTREME, NON-GROUND-IMPACT FATAL INJURY CITATIONS/U.S. NAVY/ EJECTIONS ACCOMPLISHED CLEAR OF AIRCRAFT AND INADVERTENT THROUGH-THE CANOPY (1 & 5 LESS TA-7 AND AV-8)

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NON-GROUND-IMPACT NON-MULTIPLE EXTREME OVER WATER FATAL INJURY CITATIONS/U.S. NAVY/ EJECTIONS ACCOMPLISHED CLEAR OF AIRCRAFT AND INADVERTENT (EXCLUDING AV-8 & TA-7)

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FOR 1968 (MS)

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JANUARY 1969 – DECEMBER 1979

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(35)	-	+	t	+	Н	_	+	+	t	H	\vdash	t	H	Ι,	t	1	+	7	†	1	1		-	Н	T	7	-	\vdash
NOITARO1839	_	1	+	1	Н	L	4	+	L	Н	<u> </u>	Ļ	Н	-	4	4	4	4	+	L	١.	Ļ	Ц	Ц	-	4	_	
LACERATION (0£)	١.	- -	-						1							- 1										ĺ		
IN OBILICE (20)	\vdash	†	†	1	Н	Т	+	1	٢	Н	Т	t	٢	,	+	┪	+	†	+	٢	1	r	d	П	1	7		
LOWEICH BODA (25)	-	+	+	+	Н	-	+	+	+	Н	\vdash	+	Н	+	+	4	+	+	+	╁	+	┝	4	Н	\vdash	+		\vdash
WAUB JAMASHT	_	1		L	L	L			L	Ц	L	L	L	L	1	_		┙	Ĺ	L	L	L	ل	L	L	╛		$ldsymbol{ldsymbol{ldsymbol{eta}}}$
TORANI (50)		1	7	Т			T	-	Ī	П	1	7	П	Г	Г		7	1	Τ	Т	F	ľ	1		Г	I		
9EMD2 (48)	-	Ť	†	+	Н	Н	+	+	t	H	\vdash	†	٢	-	+	\dashv	+	†	†	t	٢	r	+	Н		+	_	\vdash
EWBOT IZW/	┝	+	+	+	Н	-	+	+	+	Н	\vdash	+	H	+	+	4	+	4	+	+	╀	-	4	Н	⊢	4		├-
3DAHAROM3H	L	1	1	1	L	L	1	1	L	L	L	L	L	L	1		Ц	j	1	L	L	L	۷	Ц	L	┙	Ц.	$oxed{oxed}$
3AUT4UA (EE)	_	T	ſ	Γ	Г	1	Γ	Γ	ſ		٦		"	-		Ī	I	Ī	-	١	٦	ً	1			Ī		١ -
INJURY (64)	┝	+	+	t	Н	-	+	+	t	٢	-	+	۲		+	-	H	+	+	+	t	-		۲	t	┪	-	
INTERNAL SHOCK (60)	-	+	+	4-	⊢	L	4	+	╀	⊢		+	₽	-	+	-	Н	+	÷	╀	Ļ.	├-	-	Н	├-	4	_	
DITAMUART		1	L	L	L			1					L	L	L			┙	1	L	L	L				_		
PNEUMO/HEMO (at) XAROHT		-			1		1		ì			1		H	1			-	ļ	İ	i	١				-		ļ
(AT) (JATAR NON)	┝	+	+	t	۲	Г	+	+	t	٢		Ť	۲	Ħ	1	_	Ħ	1	1	1	٢	1		Г	1	7	_	1
NOISH 3MBUS	-	4	+	╀	╀	L	+	+	╀	H	⊢	+	╀	H	╀	_	4	+	+	╀	╀	┝	-	⊢	╀	-		-
COLD INJURY				1			1						L	Ĺ			1	1	Ł	!	!	L		L	L	- 1		
	L	ì	1	+-						1			1	1			_		1	ſ	ſ	ſ ¯				_		
(1.9)	-	j	+	t	Γ		Ì	T				ĺ	1	i	T	7	П		1	1	1	1				7		
(41) ONCONSCIONSMESS (13)	L		+	ļ			+	Ŧ	ļ	-	_	+	H	+	Ŧ	_	H	+	+	+	┞	-	+	L	-	7	_	_
(41) ONCONZCIONZMEZZ (13) CONCOZZION			1	+			+	1	ļ			+	F	+	-	_			+	+	-	-	_					
ONCONSCIONSNESS (38) (38) (38) (38)			1					-				1		+					1	+	-		-				_	
1911 (13) (14) CONCORZION (132) (132) 2b W IN (190)		+	+	+			+	-	-			+			+			-	+	-	-	-	_		-			
LOS TENENT TOOL TENENT TOOL TO THE PERSON (136)		+	+				+	+	-			 							+	-	-							
TEAR MUSCLE.		+	+				+++++++++++++++++++++++++++++++++++++++	-				+ + +			+++++++++++++++++++++++++++++++++++++++				+	+		-						
(41) (13) (13) (14) (15) (16) (16) (16) (16) (16) (16) (16) (16												 							+	+++++++++++++++++++++++++++++++++++++++			_					
(%) (%) (%) (%) (%) (%) (%) (%) (%) (%)					-														++++++	+++++++++++++++++++++++++++++++++++++++	-							
1911 1929 1939																			+++++	++++	 							
(41) (12) (13) (13) (14) (15) (16) (16) (16) (16) (16) (16) (16) (16			+ + + + + + + + + + + + + + + + + + + +																+++++++++++++++++++++++++++++++++++++++	+++++++++++++++++++++++++++++++++++++++	 							
(41) (12) (13) (14) (15) (15) (16) (16) (16) (16) (16) (16) (16) (16			+ + + + + + + + + + + + + + + + + + + +		2																							
I APOCHAGE TRAIL TABLE FRACTURE TO STAND TO					1																							
(11) AMCONACIONARES (11) AMCONACIONARES (10) (12) (13) (14) (15) (15) (16) (16) (16) (16) (16) (16) (16) (16			} 		1																							
(41) (10) (13) (14) (15) (16) (16) (16) (17) (17) (17) (17) (18) (18) (18) (18) (18) (18) (18) (18			} 		1																							
(41) MECONGCIONENESS (13) (13) (14) (15) (15) (16) (16) (16) (17) (17) (18) (} 																+++++++++++++++++++++++++++++++++++++++									
(41) (12) (13) (13) (14) (15) (16) (16) (17) (17) (17) (18) (18) (18) (18) (18) (18) (18) (18			 		3																							
(41) (10) (13) (14) (15) (16) (16) (16) (17) (17) (17) (17) (18) (18) (18) (18) (18) (18) (18) (18			 		1															 								
(43) (43) (43) (44) (45) (46) (46) (46) (46) (46) (46) (46) (46			}																	 								
(4) (4) (4) (4) (4) (4) (4) (4)			}																									
(41) (13) (14) (15) (16) (16) (17) (17) (18) (18) (18) (18) (18) (18) (18) (18			}		3														 									
(41) (13) (14) (15) (16) (16) (17) (17) (18) (18) (18) (18) (18) (18) (18) (18			} 																									
(1) TANASCHION (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)			}																	 								
(10) (10) (10) (10) (11) (11) (11) (12) (13) (14) (15) (15) (15) (16) (17) (17) (18) (18) (18) (19) (19) (19) (19) (19) (19) (19) (19			\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ 																									
(1) (1) (1) (1) (1) (1) (1) (1)																												
(10) (10) (10) (11) (11) (11) (12) (13) (14) (15) (15) (16) (17) (18) (18) (19)			}																									
(41) MOCONGCIONEREZ (10) (11) (12) (13) (14) (15) (15) (16) (16) (17) (17) (18) (1																· Se	(90)	1(0)					1541	(S)	16:		30	
(41) MOCONGCIONEREZ (10) (11) (12) (13) (14) (15) (15) (16) (16) (17) (17) (18) (1		100							(F)	1(1) Q						189: 43	AX (06)	(EN (DZ)			18. SM	2	HT : 241	GS 75s	(6) (B)		12.20	
(41) MOCONGCIONEREZ (10) (11) (12) (13) (14) (15) (15) (16) (16) (17) (17) (18) (1		SAULT		MOSE (22)	NECK 104		A ARECTA	1. BOW (22)	100 Part 100 Part	HAND (17)			KWFE (21)			JL DE # (95)	ORAX (06)	(O) Namox		Table 1	TÖCKS 108.	GANS	(\$4PT '24)	UNGS 725	JINER 1991		ARTS : 20j	000
(41) (12) (13) (14) (15) (16) (16) (16) (16) (17) (17) (18) (18) (18) (18) (18) (18) (18) (18	,	S. C. C. (91)		122 350W			WER ARM (14)	EL BOR (22)		HAND (17)			TANKE (21)			MOULDER 108)	THORAX (06)	ABCOMEN (07)		PACK 131	SECTION SECTIO	ORGANS	HEART : 241	LUNGS '251	OTMER 1991)Y PARTS 20j	00,100
191 103 103 103 104 105 105 106 107 108 108 108 108 108 108 108	,	(0) STORY		(22) 350W			CONTENT AND THE	ELBOW (22)	(a) 1 (b) 1 (c) 1	HAND (17)		TITLE STATE OF THE	KNE (21)			SMOULDER (05)	THORAX (06)	ABCOMEN (07)		PACK (IR)	BUTTOCKS (QL)	(AL ORGANS			OTHER 199)		BODY PARTS 120;	(00) A000
100 CONCORPORT OF THE PROPERTY	,	300 (iii)	The state of the s	NOSE (22)	MECK (Qu		ļ	EL BONE (22)	ST LYSE	HAND (17)	i	TONE OF THE PROPERTY OF THE PR	Ĺ			SHOULDER (05)	!	ABOUMEN (07)	PELVIS (09)	MACK III	BUTTOCKS : 08.	SHAN ONGANS			į		T BODY PARTS 201	/At 8/DP / 1001
(41) MOCONGCIONEREZ (10) (11) (12) (13) (14) (15) (15) (16) (16) (17) (17) (18) (1	MEADMECK	SKOLLON		WOSE (22)	MECK (Qu	A Plets		CCARON 13	(\$\frac{1}{2} \cdot \frac{1}{2	HAND (17)	LEGS	TO THE STATE OF TH	KNE (21)		TOTAL TOTAL	SPOULDER (05)	THORAX (06)	ABCOMEN (07)		WIT MOVE	BULLINCKS : GET	INTERNAL ORGANS		-	OTHER 1991		MULT BODY PARTS 1201	107AL BODY 1001

智力

				(SURVIVORS ONLY) -						
ODY PART:										
	# OF SURV	IVORS - 179 THE-CANOPY					JETTISO	VIVORS - 941 NED-CANOP	Υ	
,,,,,,	·		11111	AMPUTATION	1,4,1	<u> </u>	1 1 1 1	 	1,11,	1 + + +
	 			(03) AVULSION (04)	·					†
				DECAPITATION (16)					1	—
				EVISCERATION (19)			 		 	1
				TRANSECTION (47)	<u> </u>		 		 	— —
				EXSANGUINATION (43)						†
		1		CC* MINUTED FRACTURE (09)					 	1
			-	COMPOUND FRACTURE (10)						
		1		COMPOUND COMMINUTED FRACTURE (11)						†
				COMPRESSION FRACTURE (12)	†					1
				C	Π			·		
				CRUSHING (15)			1			
				DERANGEMENT (45)						
				DISLOCATION (46)						
				TEAR MUSCLE/ LIGAMENT(40)	L					
				STRAIN (36)						
				SPRAIN (35)						
			ä							
				UNCONSCIOUSNESS (41)						
				COLD INJURY (71)						
				SUBMERSION (NON-FATAL) (74)						
				PNEUMO/HEMO THORAX (76)						
				TRAUMATIC SHOCK (60)	1		1			
				INTERNAL INJURY (64)			1			
				RUPTURE (33)	1		ļ		ļ ———	
				HEMORRHAGE (29)	· •	-				
				EMBOLISM/ BENDS (49)						
				INFARCT (50)			ļ			1
				THERMAL BURN (52)						
				FOREIGN BODY IN ORIFICE (20)						
				LACERATION (30)		1				
				PERFORATION (32)						
				SCRATCH (34)		_	I			
				BITE (05)	I		Ţ			
				ACOUSTIC TRAUMA (02)	1		I			
				CONTUSION (14)			I	·	Ī	
				EDEMA (48)			r		1	
				HEMATOMA (28)	[<u>, </u>		1	
		I :	•	HEMORRHAGE (29)	1		!		†	†
		I i	1	ABRASION (01)			† - ·	Ţ	†	†
				DROWNING (55)			İ	•	1	
			•	UNKNOWN/OTHER (99)			<u> </u>	•	1	·†
			. •	POISONING SYSTEMIC (65)			1	• .	•	†
	1	1	†	MULTIPLE EXTREME (98)	1		†	•	1	†
		Ţ			† '		•	!	•	†

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	<u> </u>		CANOPY VS. JETTISONED — (SURVIVORS ONLY) —			
DDY PART: FAC	CE					
	# OF SURVIVORS - 179			# 0F SUF	NED-CANOPY	
11111	THROUGH THE CAN] : : : : : : : : : : 	111111111111111111111111111111111111111	1 1
			AMPUTATION (03)		1	
			AVULSION (04)			
			DECAPITATION (16)			
			EVISCERATION (19)			
			TRANSECTION (47)			
			EXSANGUINATION (43)			
			FRACTURE (09)			
			COMPOUND			
			FRACTURE (10) COMPOUND COMMINUTED	<u> </u>		
-			FRACTURE (11) COMPRESSION			- -
	+		FRACTURE (12) SIMPLE FRACTURE	h	 	-
		in the second se	(26) CRUSHING	 	 	
	 		(15) DERANGEMENT	+	 	-
			(45) DISLOCATION		 	
			(46) TEAR MUSCLE/		 	
	 		LIGAMENT(40) STRAIN	-		
	<u> </u>		(36) SPRAIN			
			(35)			
			CONCUSSION (13)			
			UNCONSCIOUSNESS (41)			
			COLD INJURY (71)			
			SUBMERSION (NON FATAL) (74)			
			PNEUMO/HEMO THORAX (76)			
			TRAUMATIC SHOCK (60)			
			INTERNAL INJURY (64)	h †		
			AUPTURE	T		
			(33) HEMORRHAGE	!		
		-+	(29) EMBOLISM/	+ · · + · - · · · · · · · · · · · · · · · · · ·		
			BENDS (49)	-	 	
			(50) THERMAL BURN	hm	ļ	
			(52) FOREIGN BODY			
		(2:0:05.1	IN ORIFICE (20)			
			(30) PERFORATION			
			(32) SCRATCH		ļ	
			(34)			
			BITE (05)			
		<u> </u>	ACOUSTIC TRAUMA (02)		L	
		游传统	CONTUSION (14)			
			EDEMA (48)			
		B	HEMATOMA (28)		1	_ +
			HEMORRHAGE	† * · · · · · · · · · · · · · · · · · ·	 	· + - · -
			(29) ABRASION		+ ·	÷ - ·
		\$75.4 A A A A	(01) DROWNING		÷ .	†
	+	<u> </u>	UNKNOWN/OTHER	+	•	• .
	-+	·	(99) POISONING	4.	4	•
			SYSTEMIC (65) MULTIPLE	+	· ·	
		, 1	EXTREME (98)	1	1 .	
1		i	MANUAL (78)	!		

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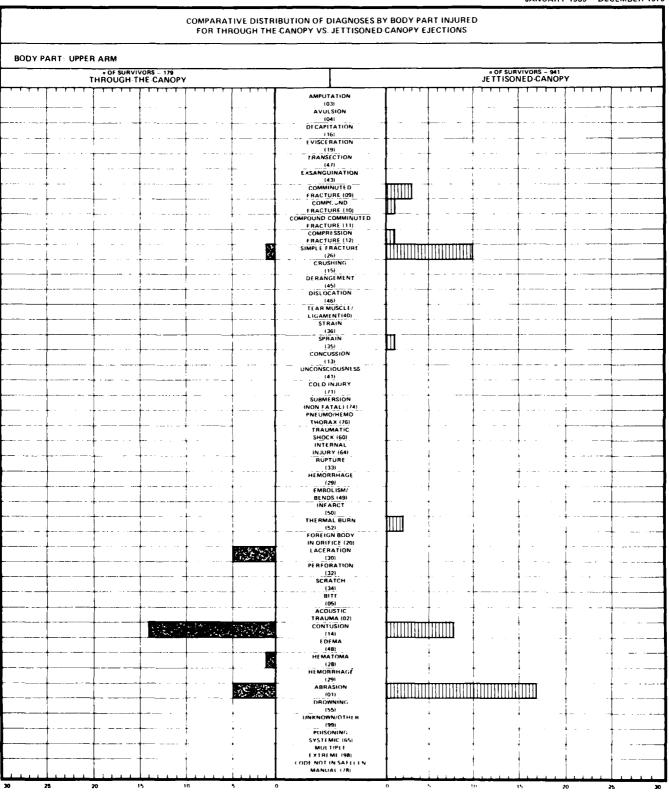
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			STRIBUTION OF DIAGNOSES B THE CANOPY VS. JETTISONED	CANOPY EJECTION			
ODY PART:	EYE		(SURVIVORS ONLY) —				
	# OF SURVIVORS -	179			# OF SURVIVOR	S - 941	
	THROUGH THE C	ANOPY	AMPUTATION			TTTTT	'
			(03)				
			AVULSION (04) DECAPITATION	.Ш			
			(16) EVISCERATION	<u> </u>			-
			(19) TRANSECTION	ļ			
-+			(47) EXSANGUINATION				
			(43) COMMINUTED	+	++-		
			FRACTURE (09)	+			
			FRACTURE (10) COMPOUND COMMINUTED	+			
 -			FRACTURE (11) COMPRESSION	+			-
			FRACTURE (12) SIMPLE FRACTURE	 	-+		+
			(26) CRUSHING	 			+
			DERANGEMENT (45)	†			
			DISLOCATION (46)	†			
			TEAR MUSCLE/ LIGAMENTI401				
			STRAIN (36)				-
			SPRAIN (35)	†			
			CONCUSSION (13)			!	
			UNCONSCIOUSNESS (41)				
			COLD INJURY (71)				
			SUBMERSION (NON FATAL) (74)				
			PNEUMO/HEMO- THORAX (76)				
			TRAUMATIC SHOCK (60)	ļ			
			INTERNAL INJURY (64)	.			
			RUPTURE (33)				<u> </u>
			HEMORRHAGE (29) EMBOLISM/				
			BENDS (49)	 			<u> </u>
			(50) THERMAL BURN	 			
			(52) FOREIGN BODY	 			+
-			IN ORIFICE (20) LACERATION	####			
			(30) PERFORATION	шш			
			(32) SCRATCH	+ +			+
			(34) BITE	 			+
			ACOUSTIC	t			
			TRAUMA (02) CONTUSION (14)	 			-
			EDEMA	*************************************			
	—		HEMATOMA	 			1
-+-			(28) HEMORRHAGE (29)				+
			(29) ABRASION (01)]			
		- · - + - · · · - · · - · · · · · · - · · - · · · · · · · · · · ·	DROWNING (55)				
		- 	UNKNOWN/OTHER (99)				
		• • • • • • •	POISONING SYSTEMIC (65)	1	- † †		1
			MULTIPLE EXTREME (98)		_		
		* * ·	CODE NOT IN SAFECEN MANUAL (78)	1	<u> </u>		+

			FOR THRO	OUGH THE	IBUTION OF DIAGNOSES BE-CANOPY VS. JETTISONED	CANOPY EJECT	IONS		
ODY PART: NE	:CK				(SURVIVORS ONLY)				
OUT PARTE NE	# OF SURV	IVORS 179	,				# OF SURV	IVORS - 941 ED-CANOPY	
	THROUGH-T	HE-CANOPY		1171	AMPUTATION	 	3511301	TTTT	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
			<u> </u>		(03) AVULSION				
					(04) DECAPITATION	╂			
		 			(16) EVISCERATION	 			
· · ·		 	 		TRANSECTION	 -			
	 	 			(47) EXSANGUINATION (43)	 			
	- 	 			COMMINUTED FRACIURE (09)	1			
					COMPOUND FRACTURE (10)				
					COMPOUND COMMINUTED FRACTURE (11)				
		• =- ·	·		COMPRESSION FRACTURE (12)	1			
			+		SIMPLE FRACTURE (26) CRUSHING	 	· · · · · · · · · · · · · · · · · · ·		
			· · · · · ·		(15) DERANGEMENT	·			
	+				(45) DISLOCATION	+	<u> </u>		
		.	•		TEAR MUSCLE	 	+		
		•		C.C.	LIGAMENT(40) STRAIN (36)				
		† · · ·			SPRAIN (35)	I			***************************************
	→ · · · -=	•	• • • • • • • • 	se'h	CONCUSSION (13)				
		 			UNCONSCIOUSNESS				
			· ·		COLD INJURY (71)	ļ		:	
	+	.	<u>.</u>		SUBMERSION (NON FATAL) (74) PNEUMO/HÉMO	ļ ,		·	
· · · · · · · · · · · · · · · · · · ·		•			THORAX (76)				
		+		-	SHOCK (60)			+ -	
	-	<u> </u>		-	INJURY (64) RUPTURE		•		
-		}-	• •		133) HEMORRHAGE	h • †			
		†	• - •	-	EMBOLISM BENDS (49)	"	• •	· · · · · · · · · · · · · · · · · · ·	
		+	•		(NFARCT 150)		• - •		
) 	* · · · · · · · · · · · · · · · · · · ·			THERMAL BURN (52)		• •		
		!			FOREIGN BODY IN ORIFICE (20)				
		· •	· = •		LACERATION (30)	Щ	-	-	
					PERFORATION (32) SCRATCH				
		+			(34) BITE		- +		
		 			ACOUSTIC	+ + +	<u> </u>		
			† · · · †	7	TRAUMA (02)	himmhin		- +-	
		 		- C.S.	EDEMA	 	mminmm i		· · · +· - ·
	- +	 	+ +		HEMATOMA	ш	†		
		<u>†</u>	† †	-	128) HEMORRHAGE (29)	H		•	
		<u> </u>	t t		ABRASION (01)	I mmunim			•
				. Barri	DROWNING (55)			, ,	<u> </u>
		Į -	T		UNKNOWN/OTHER (99)	1	<u> </u>	•	†
			ļ		POISONING SYSTEMIC (65)		į	•	† I
	1	<u> </u>	; <u> </u>		MULTIPLE EXTREME (98)			•	•
			į l		CODE NOT IN SAFECEN MANUAL (78)	1	'	•	

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			FOR THROUGH THE	BUTION OF DIAGNOSES B CANOPY VS. JETTISONED (SURVIVORS ONLY)	-CANOPY EJECTION	S		
DDY PART	: LOWER ARM							
	≠ OF S	URVIVORS - 179 GH-THE-CANOI			a a	# OF SURVIVO	RS - 941 CANODY	
1 171	TTTTT			<u> </u>			TTTTT	717
				AMPUTATION (03)				1
				AVULSION (04)	<u> </u>			
				DECAPITATION (16)				
				EVISCERATION (19)				
				TRANSECTION (47)				
				EXSANGUINATION (43)				
				COMMINUTED FRACTURE (09)				
				COMPOUND FRACTURE (10)				
				COMPOUND COMMINUTED FRACTURE (11)				
-				COMPRESSION FRACTURE (12)				1
			13.2	SIMPLE FRACTURE (26)		1		1
			75-44	CRUSHING (15)	********			
				DERANGEMENT	†			1
			+	DISLOCATION	 			
			+	(46) TEAR MUSCLE/	 			+
			+	LIGAMENT(40) STRAIN			<u> </u>	+
			+	(36) SPRAIN	 	+		+
	-		+	(35) CONCUSSION	₩		 	+
-+			+	(13) UNCONSCIQUENESS	 			+
			1	(41) COLD INJURY	}	+		+
	-		 	(71) SUBMERSION	 	 		-
\longrightarrow			 	(NON-FATAL) (74) PNEUMO/HEMO	+	 		+
	 		 	THORAX (76) TRAUMATIC	.			
			 	SHOCK (60)	 			
\perp			 	INJURY (64)	_			
				RUPTURE (33)				
				HEMORRHAGE (29)				
				EMBOLISM/ BENDS (49)				
				INFARCT (50)				
				THERMAL BURN (52)				
				FOREIGN BODY IN ORIFICE (20)				1
			2333	LACERATION (23)				
				PERFORATION (32)				
\neg				SCRATCH (34)	1			
	-		· † · · · · · † · · · · · · †	(34) B(TE (05)	 	 		+
			1	ACOUSTIC				
-+				CONTUSION	lm			+
			FERT CONTROL	(14) EDEMA	 	+		
			 	(48) HEMATOMA	 	+		+
-				(28) HEMORRHAGE	 			+
				(29) ABRASION				+
			 	(01) DROWNING	- 	-+		-
		-		(55) UNKNOWN/OTHER	++			
			 	(99) POISONING	 			
				SYSTEMIC (65) MULTIPLE	 			
			<u> </u>	EXTREME (98)	_			
- 1	1			CODE NOT IN SAFECEN MANUAL (78)	1	1 1	í	1

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		FOR THROUGH	THE CANOPY VS. JETTISONE				
			(SURVIVORS ONLY)				
DDY PART: E	# OF SURVIVORS ~ 179				# OF SURVIVORS	- 941	
	THROUGH THE CANOPY			******	JETTISONED-CA	ANOPY	
'' ''			AMPUTATION (03)				, ,
			AVULSION	- 	†		
- +			DECAPITATION				
			(16) EVISCERATION		 		
			(19) TRANSECTION		 		
			(47) EXSANGUINATION				
			(43)				
			COMMINUTED FRACTURE (09)				
			COMPOUND FRACTURE (10)				
			COMPOUND COMMINUTED FRACTURE (11)				
			COMPRESSION FRACTURE (12)				
			SIMPLE FRACTURE	m	† † †		
			(26) CRUSHING		 		
	- - - 		(15) DERANGEMENT		+		
			DISLOCATION	- 	++		
\rightarrow			(46) TEAR MUSCLE/	<u> </u>	 		
			LIGAMENT(40)		 		
			STRAIN (36)				
		l	SPRAIN (35)				
			CONCUSSION (13)				
			UNCONSCIOUSNESS (41)		 		
			COLD INJURY		+	1	
			(71) SUBMERSION		+		
		 	(NON-FATAL) (74) PNEUMO/HEMO				
		ļ — ļ — —	THORAX (76) TRAUMATIC				
		ļ	SHOCK (60)		 		
			INTERNAL INJURY (64)				
			RUPTURE (33)				
			HEMORRHAGE (29)				
			EMBOLISM/ BENDS (49)				
			INFARCT		†		
		 	(50) THERMAL BURN	<u> </u>	 		
		 	(52) FOREIGN BODY	- -	 		
-+		20.00	IN ORIFICE (20)	· +	 		
			(30) PERFORATION		 		
		 	(32)		 		
			SCRATCH (34)				
			BITE (05)				
			ACOUSTIC TRAUMA (02)				
			CONTUSION		 		
		128,383	EDEMA		+		
		 	(48) HEMATOMA		 		
		 	(28) HEMORRHAGE		 		
		F	(29)				
				<u> </u>	4		
			DROWNING (55)	- L	1. 1.		
			UNKNOWN/OTHER (99)		Ţ		
		·	POISONING SYSTEMIC (65)		†		
$\neg \neg$		t t	MULTIPLE		t · 1		
		† - · - · · · · · · · · · · · · · · · ·	EXTREME (98) CODE NOT IN SAFECEN	-+	· 🕴 -	 	
1		ı l	MANUAL (78)	1 1	1	1 1	

		FOR		-CANOPY VS. JETTISONEI		NS			
ODY PART:	WRIST			(SURVIVORS ONLY) -		· · · · · · · · · · · · · · · · · · ·			- '-
	# OF SURVIVO	ORS - 179				* OF SUR	VIVORS - 941 IED-CANOPY	,	
, , , , , , , , , , , , , , , , , , , 	THROUGH IT	THE CANOPY	, , , , , , , , , , , , , , , , , , , 	1		JETTISUM	TTTTT	, , , , , , , , , , , , , , , , , , , 	1111
				AMPUTATION (03)	ļ				ļ
				AVULSION (04) DECAPITATION					ļ
				(16)					↓
				EVISCERATION (19) TRANSECTION	1				
				(47) EXSANGUINATION					↓
			E28	(43) COMMINUTED	_				- -
				FRACTURE (09)					-
				FRACTURE (10) COMPOUND COMMINUTED	- 				ļ
			_	FRACTURE (11) COMPRESSION	 				
	+			FRACTURE (12) SIMPLE FRACTURE	 	+			
				(26) CRUSHING	шш				
-	++		-+	(15) DERANGEMENT	!				
				DISLOCATION	 				
			+	(46) TEAR MUSCLE/					
	- - 		***	LIGAMENT(40)	+	+	~		
			15%	SPRAIN	tuun	 			+
				(35) CONCUSSION	 	+			-
			+	UNCONSCIOUSNESS (41)	 	 	- 		
			~- 	COLD INJURY	1 -	 			
			+	(71) SUBMERSION (NON FATAL) (74)	 		-		
				PNEUMO/HEMO THORAX (76)	†				
				TRAUMATIC SHOCK (60)	†				
			- i - · · · · · · · · · · · · ·	INTERNAL INJURY (64)	1				†
		i		RUPTURE (33)	1				†
				HEMORRHAGE (29)	†				†
				EMBOLISM/ BENDS (49)					
				INFARCT (50)	1	1			
			7.6	THERMAL BURN (52)					T
				FOREIGN BODY IN ORIFICE (20)					T
				LACERATION (30)					
				PERFORATION (32)	1		1		1
				SCRATCH (34)	1	1			1
				BITF (05)		†			
				ACOUSTIC TRAUMA (D2)			1		
				CONTUSION (14)	<u> </u>				[
	-+			EDEMA (48)					I
				HEMATOMA (28) HEMORRHAGE	1		Ţ		
			100000000000000000000000000000000000000	(29)	L		1		
				ABRASION (01)	ш ! .		Ţ		1
				DROWNING (55) UNKNOWN/OTHER	1		1		i
-+-				UNKNOWN/OTHER (99) POISONING		1 .			ļ
				SYSTEMIC (65) MULTIPLE	l	ļ .	i		l
				EXTREME (98) CODE NOT IN SAFECEN	1	İ	ļ		
			_	MANUAL (78)	1	1	,		

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	FOR THROUGH THE	IBUTION OF DIAGNOSES E -CANOPY VS. JETTISONED (SURVIVORS ONLY)	CANOPY EJECTIONS		
ODY PART: HAND					
# OF SURVIVORS - 1 THROUGH THE CA	79 NOPY		" OF SI JETTIS	JRVIVORS - 941 ONED-CANOPY	
		AMPUTATION	 	1,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
		(03) AVULSION	III		
		(04) DECAPITATION (16)			
		EVISCERATION (19)		†	
		TRANSECTION (47)			
		EXSANGUINATION (43)			
		COMMINUTED FRACTURE (09)			
		COMPOUND FRACTURE (10)			
		COMPOUND COMMINUTED FRACTURE (11)			
		COMPRESSION FRACTURE (12)			
		SIMPLE FRACTURE (26) CRUSHING	 		
		(15) DERANGEMENT			
		(45) DISLOCATION	h 	+	
		(46) TEAR MUSCLE/	#	-	
- - - - - - - - - - 	_	LIGAMENT(40) STRAIN			
		(36) SPRAIN	 		+
		(35) CONCUSSION	-	 	
		UNCONSCIOUSNESS (41)	 		
		COLD INJURY (71)			
		SUBMERSION (NON FATALI (74)			1
		PNEUMO/HEMO THORAX (76)			
		TRAUMATIC SHOCK (60)			
		INTERNAL INJURY (64)			
		RUPTURE (33)			
		HEMORRHAGE (29) EMBOLISM/			
		BENDS (49)	-		
	EARAS.	(50) THERMAL BURN			
	N. C. C. C. C. C. C. C. C. C. C. C. C. C.	(52) FOREIGN BODY			
		IN ORIFICE (20)			
7.0.5	AND A DOLANDER DOE HONDON BOOK	PERFORATION			
		SCRATCH	 	 	
		(34) BITE (05)	†	 	
		ACOUSTIC TRAUMA (02)	†	 	
		CONTUSION (14)			
		EDEMA (48)			
		HEMATOMA (28)			
		HEMORRHAGE (29)		Ţ I	_ I
	网络萨维德克斯特索	ABRASION (01)			I
		DROWNING (55)	1		
		UNKNOWN/OTHER (99) POISONING	<u> </u>		
		SYSTEMIC (65) MULTIPLE	-	<u> </u>	ļ
		EXTREME (98) COUR NOT IN SAFECEN	 	1	
		MANUAL (78)			1

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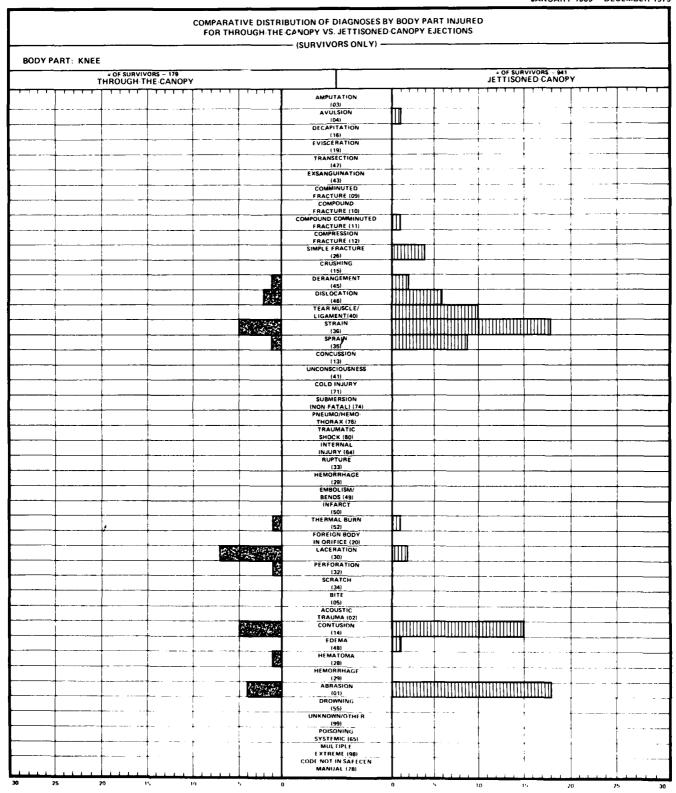
	•	FOR THROUGH-THE	BUTION OF DIAGNOSES B CANOPY VS. JETTISONED	CANOPY E	JECTIONS	-			
ODV BADT	: UPPER LEG		— (SURVIVORS ONLY) —					· · · · · · · · · · · · · · · · · · ·	
ODT PART	# OF SURVIVORS - 179 THROUGH-THE-CANOPY	·				# OF SURV	VIVORS - 941		
	THROUGH-THE-CANOPY			•		JETTISON	IED-CANOI	Y Thill	, , , ,
			AMPUTATION (03)	1		} ' ' ' ' }			
			AVULSION (04)	1					
			DECAPITATION (16)	1					
			EVISCERATION (19)	†					
			TRANSECTION	†					
			EXSANGUINATION						
		*	COMMINUTED	h					1
		828	FRACTURE (09) COMPOUND	₩					
			FRACTURE (10) COMPOUND COMMINUTED	 -				<u> </u>	—
			FRACTURE (11)	 -				1	<u> </u>
		2	FRACTURE (12) SIMPLE FRACTURE	m				 	
			(26) CRUSHING	₩				 	
			(15) DERANGEMENT	 	L	 		 	+
			DISLOCATION	 				+	
			(46) TEAR MUSCLE/	 				 	
		E	LIGAMENT(40) STRAIN	 				+	
			(36) SPRAIN	 				 	+
			(35) CONCUSSION	 			L	 	+
			(13) UNCONSCIOUSNESS	 				 	+
			(41) COLD INJURY	 					
			(71) SUBMERSION					ļ	<u> </u>
			(NON FATAL) (74) PNEUMO/HEMO		/ 	ļ 		ļ	-
			THORAX (76)					ļ <u>-</u>	ļ
			TRAUMATIC SHOCK (60)	_				ļ	ļ
			INTERNAL INJURY (64)	_				ļ	
			RUPTURE (33)		<u>-</u>			ļ	<u> </u>
			HEMORRHAGE (29)	<u> </u>					
			EMBOLISM/ BENDS (49)	1.					
			INFARCT (50)						
		2 21	THERMAL BURN (52)						
			FOREIGN BODY IN ORIFICE (20)	T					
			LACERATION (30)						
			PERFORATION (32)						
			SCRATCH (34)						
			BITE (05)	1					1
			ACOUSTIC TRAUMA (02)	†				1	†
		925	CONTUSION (14)	I IIIIIIIIIII				1	1
		The state of the s	EDEMA (48)				<u> </u>	†	
		*	HEMATOMA (28)	1111				1	1
			HEMORRHAGE	 	<u> </u>	<u> </u>		 	+
			ABRASION	firm -		 		+	
		-	(01) DROWNING	 	 -	 -	<u> </u>	 	†
			UNKNOWN/OTHER	 	 			+	
			(99) POISONING		ļ	 			
			SYSTEMIC (65) MULTIPLE	† · — —		ļ · · ·		ł	
			EXTREME (98) CODE NOT IN SAFECEN	· ·				+	
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			FOR THRO	UGH-THE	ECANOPY VS. JETTISONED	CANOPY E	JECTIONS	U			
ODY PART	: LOWER LEG		· · · · ·	-	(SURVIVORS ONLY) -						
-		VIVORS 179 THE-CANOPY				+ OF SURVIVORS - 941 JETTISONED-CANOPY					
, , , , ,	1111111			111	AMPUTATION	1111	1111		111111	1777	
		+			(07) AVULSION	 		 		<u> </u>	
					(04) DECAPITATION				-		
		+			(16) EVISCERATION	╁					
		+			(19) TRANSECTION				 -	-	
					(47) EXSANGUINATION	 				_	
				- d	(43) COMMINUTED	- h					
		+		- 1	FRACTURE (09) COMPOUND	 					
		-			FRACTURE (10) COMPOUND COMMINUTED	₩					
					FRACTURE (11) COMPRESSION	 		 			
		+	 	請	FRACTURE (12) SIMPLE FRACTURE			 			
	-	+ -	-		(26) CRUSHING	111111111111111111111111111111111111111					
			 		(15) DERANGEMENT	1		 		-	
		+			DISLOCATION	 					
		+		é	(46) TEAR MUSCLE/	 			+		
		+		- 4	LIGAMENT(40) STRAIN	 					
		 			(36) SPRAIN	H111					
		+			(35) CONCUSSION	#					
		+			(13) UNCONSCIOUSNESS	 					
+-					(41) COLD INJURY	 		 			
					(71) SUBMERSION		<u> </u>	 			
-		-			(NON FATAL) (74) PNEUMO/HEMO	†					
		+			THORAX (76) TRAUMATIC	 -					
					SHOCK (60)	 					
			 		INJURY (64) RUPTURE	 		 -			
		+			(33) HEMORRHAGE	 					
		+		-	(29) EMBOLISM/	 		-			
	 				BENDS (49) INFARCT	+					
					(50) THERMAL BURN	lim				<u> </u>	
		 		388	(52) FOREIGN BODY	- Ш		 			
				3	IN ORIFICE (20)	1111		 			
		+			(30) PERFORATION	11111					
		+	 		(32) SCRATCH	╂		-			
		+	 		(34) BITE	 		-			
		+			(05) ACOUSTIC	1					
		+		13	CONTUSION	Immon		111			
		+			(14) EDEMA	Immun	ишшш	ш			
		+	 		(48) HEMATOMA	h11		 			
		+	 		(28) HEMORRHAGE	, 	-				
		+			(29) ABRASION	hiiiiiiiiiiii		 			
	 -	+	 		(01) DROWNING	 		 			
		+			(55) UNKNOWN/OTHER	+					
		+	· · · - · - · - · ·		POISONING POISONING	+		+ +			
			├		SYSTEMIC (65) MULTIPLE	+		+	+	ļ	
		-+ · ·			EXTREME (98) CODE NOT IN SAFECEN	+		.	-	- +	
	1	1	l		MANUAL (78)	1	I	į į			

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ODY PA						— (SURVIVORS ONLY) —						
	ART: ANKL	.E										
		# OF SURVI	VORS - 179						# OF SUI	NED CANOP	<u> </u>	
, , , ,	, , , , ,	T T T T T	TTTT	, , , , , , , , , , , , , , , , , , , 	-	AMPUTATION	1:77			1111	.	
		ļ	ļ		ļ	(03) AVULSION				ļ <u>.</u>		
	ļ	ļ				(04) DECAPITATION	 			 		<u> </u>
		<u> </u>				(16) EVISCERATION	ļ			<u></u>	ļ <u></u>	
			↓			(19) TRANSECTION				ļ		
	Ĺ	L			<u> </u>	(47) EXSANGUINATION	↓			ļ		
					ļ	(43) COMMINUTED				ļ		
						FRACTURE (09) COMPOUND			_			
	ļ	ļ			<u> </u>	FRACTURE (10) COMPOUND COMMINUTED	<u> </u>					<u> </u>
		ļ			ļ	FRACTURE (11)						
	ļ	ļ	ļ	<u> </u>	1/0×. /2c ×	COMPRESSION FRACTURE (12) SIMPLE FRACTURE	100000	111111111111111111111111111111111111111		<u> </u>		
	 				1888	(26) CRUSHING		ШШ				<u> </u>
	ļ			ļ		(15) DERANGEMENT	ļ			ļ		├ —
					ļ	(45) DISLOCATION	ļ			ļ		ļ
					ļ	(46) TEAR MUSCLE/	ļ					ļ
	-		ļ			LIGAMENT(40)	100000					├ ──
		ļ		ļ	S	STRAIN (36) SPRAIN				<u> </u>		<u> </u>
		ļ	ļ		137	(35)	ШШШШ	ШШШШ				ļ
					ļ	CONCUSSION (13)	ļ					<u> </u>
			ļ		_	UNCONSCIOUSNESS (41)	_			_		<u> </u>
			ļ			COLD INJURY (71)						
						SUBMERSION (NON FATAL) (74)						
						PNEUMO/HEMO THORAX (76)					<u> </u>	
	ļ				<u></u>	TRAUMATIC SHOCK (80)	<u> </u>			L		<u> </u>
					<u> </u>	INTERNAL INJURY (64)	ļ					<u></u>
	ļ	<u> </u>			<u> </u>	RUPTURE (33)						
	ļ					HEMORRHAGE (29)						
	ļ					EMBOLISM/ BENDS (49)	.] .					
		L			<u> </u>	INFARCY (50)						
					ļ	THERMAL BURN (52)						
						FOREIGN BODY IN ORIFICE (20)	<u></u>					
					1	LACERATION (30)	Ш					
	ļ		-			PERFORATION (32)	L					
	ļ	<u></u>		[<u> </u>	SCRATCH (34)	1					
		<u> </u>			1	B)TE (05)	1					
	ļ		ļ	ļ	1	ACOUSTIC TRAUMA (02)					L	
		<u> </u>	L	 	1	CONTUSION (14)]	
			L	·	1	EDEMA (48)				1		
	L					HEMATOMA (28)	Ш			T	T	
						HEMORRHAGE (29)				Ţ		
		L				ABRASION (01)				1	1	
			L			DROWNING (55)				1	-	
	L	ļ		L	1	UNKNOWN/OTHER			Ī	+	†	
		L		Ţ	Ī	POISONING SYSTEMIC (65)	Ţ		ļ	1	† .	1
				1	†	MULTIPLE EXTREME (98)	1			i	1	
		T		Ī		CODE NOT IN SAFECEN MANUAL (78)	† -		İ	į.	†	†

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		FOR THROUGH-THE	IBUTION OF DIAGNOSES B CANOPY VS. JETTISONED (SURVIVORS ONLY)	CANOPY EJE	CTIONS			
ODY PART:	FOOT		— (3UNVIVONS UNLY) —					
ODT PART:	# OF SURVIVORS - 1	79				FOF SURVIVORS - 941		 -
* * * * * * * *	THROUGH-THE-CAN		<u> </u>	 		TISONED-CANO	-¥ 	, , , , , , , , , , , , , , , , , , ,
			AMPUTATION (03)				<u> </u>	
			AVULSION (04)					
			DECAPITATION (16)					
			EVISCERATION (19)					T
			TRANSECTION (47)					1
			EXSANGUINATION (43)	†				
			COMMINUTED FRACTURE (09)					
			COMPOUND FRACTURE (10)	†			<u> </u>	<u> </u>
			COMPOUND COMMINUTED	† †-				
			FRACTURE (11) COMPRESSION	† -				1
		**	SIMPLE FRACTURE	Immmh			†	
		15535	(26) CRUSHING	 	ш		1	+
			DERANGEMENT	 		 	 	
			DISLOCATION	·hn ·	+		 	+
		NAS	(46) TEAR MUSCLE/	-₩			<u> </u>	+
+			LIGAMENT(40)	1			+	+
			(36) SPRAIN	<u> </u>			+	+
			(35) CONCUSSION	THIRTH !				+
			UNCONSCIOUSNESS	ļ			 	
			(41) COLD INJURY	-			<u> </u>	
			(71) SUBMERSION				ļ <u>.</u>	-
			(NON FATAL) (74) PNEUMO/HEMO	↓ ↓				
			THORAX (76)	. ↓			ļ	
			TRAUMATIC SHOCK (60)	1		·	l	<u> </u>
			INTERNAL INJURY (64)	1				
			RUPTURE (33)					1
			HEMORRHAGE (29)	1				
			EMBOLISM/ BENDS (49)	L . i			i	
			INFARCT (50)		["			
			THERMAL BURN					
			FOREIGN BODY IN ORIFICE (20)					T
		199	LACERATION (30)	Ι .		1	1	
			PERFORATION (32)	1				1
			SCRATCH (34)	1		· · · · · · · · · · · · · · · · · · ·		T
			BITE (05)	1		···· †	†	
			ACOUSTIC TRAUMA (02)	† †			† · · · · ·	
		\$ 1650 p. 7.4	CONTUSION (14)	Immumin	malanina.	mandanama	TH .	+
		18.2 (2.2)	EDIMA	1	munitinii		<u> </u>	+
			HEMATOMA	m :	+	🛉	+	·
			(28) HEMORRHAGE	μ ;	+		†	+
			(29) ABRASION	Immunda	111011111111111111111111111111111111111	· · · †- · · ·	·	+
		+	DROWNING	himmin	mmmim	I I	+	+ -
			(55) UNKNOWN/OTHER	į .		ļ		
			(99) POISONING	1		*	1	
			SYSTEMIC (65)	1		.	; •	1
			EXTREME (98) CODE NOT IN SAFECEN	Į į			1	ļ
			CODE NOT IN SAFECEN MANUAL 1781		ĺ			1

		R THROUGH THE CAN	SURVIVORS ONLY) -				
ODY PART: SHO							
	# OF SURVIVORS - 179 THROUGH THE CANOPY	-			# OF SUR	VIVORS - 941 IED-CANOPY	
		, , , , , , , , , , , , , , , , , , , 	AMPUTATION	1,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			, , , , , , , , , , , , , , , , , , ,
	 		(03) AVULSION	 			
	+		(04) DECAPITATION	 			
	 		(16) EVISCERATION	1			
			(19) TRANSECTION	+			
			(47) EXSANGUINATION	1			
			COMMINUTED	lm			
	 		COMPOUND	 		· · · · · - · · · · · · · · · · · · · · · · · · ·	
		co	FRACTURE (10) OMPOUND COMMINUTED	-			
			COMPRESSION	+			
	+		FRACTURE (12) SIMPLE FRACTURE				
		73	(26) CRUSHING				
	+ + + + + + + + + + + + + + + + + + + +	<u> </u>	(15) DERANGEMENT (45)				-
	·		DISLOCATION (46)	I			
		- NO.	TEAR MUSCLE/ LIGAMENT(40)	-			
	<u> </u>		STRAIN				
	+		(36) SPRAIN	- }			
	+		(35) CONCUSSION	111111111111111111111111111111111111111			
			UNCONSCIOUSNESS	 			
			(41) COLD INJURY	1			
			(71) SUBMERSION	1			
			(NON FATAL) (74) PNEUMO/HEMO	1			_
			THORAX (76) TRAUMATIC	+ - +			
		+	SHOCK (60) INTERNAL	- 			
			RUPTURE	†			
			HEMORRHAGE	- 			
			(29) EMBOLISM/	+			
	-		BENDS (49)	 			
			THERMAL BURN				
			(52) FOREIGN BODY				
	· · · · · · · · · · · · · · · · · · ·		IN ORIFICE (20)	h			
	 		PERFORATION	-₩			
			SCRATCH	 			
			BITE				
	++		(05) ACOUSTIC				
	 	0340440	TRAUMA (02)	- Immunian			
			(14) EDEMA	- Immuniu	<u></u>		
			(48) HEMATOMA	₩			
			(28) HEMORPHAGE	₩ . ∔	··· - 		
	 		ABRASION	Jamaniaa	пп ∤ · · · · · · · · · · · · · · · ·		
	+		(01) DROWNING	100000000000	Ш		
		- - +	UNKNOWN/OTHER	+ -	/		+
	+		POISONING	+	+		<u> </u>
			SYSTEMIC (65)	+	į ,	+	
	-+	· · · · · · · · · · · · · · · · · · ·	EXTREME (98) CODE NOT IN SAFECEN	+			
	<u></u>		MANUAL (78)	1			

		FOR THROUGH-TH	RIBUTION OF DIAGNOSES E	CANOPY EJEC	TIONS			
ODY PART	. THORAY		—— (SURVIVORS ONLY) —					
ODT PART	# OF SURVIVORS - 11 THROUGH THE CAN	78		<u> </u>	F OF S	URVIVORS - 941 ONED-CANOP		
	THROUGH THE CAN	IOPY	 _		JE1113		, 	111
			AMPUTATION (03) AVULSION	J				
			(04) DECAPITATION	<u> </u>				
			(16) EVISCERATION	ļ				
			(19)	ļ				
			TRANSECTION (47)	1				
			EXSANGUINATION (43) COMMINUTED	1				
			FRACTURE (09)					
			FRACTURE (10) COMPOUND COMMINUTED	+			·	
			FRACTURE (11) COMPRESSION	<u> </u>				
			FRACTURE (12) SIMPLE FRACTURE	111111111111				
			(26) CRUSHING	- 1				
			(15) DERANGEMENT	 				
			(45) DISLOCATION	hm				
			(46) TEAR MUSCLE:	 				
			LIGAMENT(40)		n 			
			(36) SPRAIN		ـــــ ↓		-	
			(35) CONCUSSION	+				
			(13) UNCONSCIGUSNESS				-	
-			(41) COLD INJURY					
			(71) SUBMERSION	+				
			(NON FATAL) (74) PNEUMO/HEMO	- 			ļ 	
$\longrightarrow \downarrow$			THORAX (76)					
			SHOCK (60)					
			INJURY (64) RUPTURE	ļ	···	_		
		÷	(33) HEMORRHAGE	+				
			(29) EMBOLISM/	ļ., , .				
		- +	BENDS (49)					
		•	(50) THERMAL BURN	ļ				
			152) FOREIGN BODY					
		•	IN ORIFICE (20) LACERATION					
		+	(30) PERFORATION					
		+	(32)	+				
		- + · · · · •	SCRATCH (34) BITE	1			L	
			(05) ACOUSTIC	1			ļ	
+			TRAUMA (02)	h	 			m
		12 13 13 13 13 13 13 13 13 13 13 13 13 13	(14) EDEMA		<u> </u>	шиншиш		Ш
			(48)	ļ ‡	u			
			(28) HEMORRHAGE	1	ļ	1	, .	
		0.20240	(29)	homodo	1111111111111111111111111111111		1	
			OROWNING	himmini	иницииј			
			(55) UNKNOWN/OTHER		ļ	· ·		
		- +	(99) POISONING	Щ				
		+ :	SYSTEMIC (65) MULTIPLE	→ →	ļ	•		
			EXTREME (98) CODE NOT IN SAFECEN	†	į	.	ı İ	
l .			MANUAL (78)		į.			

			FOR TH	ROUGH-THI	IBUTION OF DIAGNOSES B E-CANOPY VS. JETTISONED	-CANOPY E	JECTIONS				
					(SURVIVORS ONLY)			·			
DDY PART	ABDOMEN							0.00	nuvent 4		
	# OF SU THROUG	RVIVORS - 179 H-THE-CANC	PY						RVIVORS - 94 INED CANC		
		1 111	7 7 7 7 7	1	AMPUTATION	1,,,,	1111	7	1,,,,,	71117	7,7,7
			<u> </u>	 	(03) AVULSION	 	 	 	 	 	 -
				 	(04) DECAPITATION	 	 	+	+	- +	1
					(16) EVISCERATION	 	 	+	 		+
				 	(19) TRANSECTION	 	 	-		+	+
				 	(47) EXSANGUINATION	 	 	 	-		-
					(43) COMMINUTED	 -	├			-+	+
				 	FRACTURE (09) COMPOUND	 	·		+		
				 	FRACTURE (10) COMPOUND COMMINUTED	 	 		+	-+	+
				ļ	FRACTURE (11) COMPRESSION	 -	ļ	·	 		
\longrightarrow				 	FRACTURE (12) SIMPLE FRACTURE	 	<u> </u>	 	 	+	+
			 	 	(26) CRUSHING	 	ļ		 		+
				 	(15) DERANGEMENT		 -	 	 	+	-
					(45) DISLOCATION	↓	 	 			
				_	(46) TEAR MUSCLE/		ļ	 	 		-
					LIGAMENT(40) STRAIN				 		
					(36)						
				<u> </u>	SPRAIN (35)	L		<u> </u>		1	
					CONCUSSION (13)	l			<u></u>		
					UNCONSCIOUSNESS (41)	L					
					COLD INJURY (71)						
					SUBMERSION (NON FATAL) (74)				1		
					PNEUMO/HEMO THORAX (76)	1					
					TRAUMATIC SHOCK (60)		ļ —	1			
					INTERNAL INJURY (64)	III			1		1
					RUPTURE (33)				1		1
				 	HEMORRHAGE (29)	†	t	†		_	1
					EMBOLISM/ BENDS (49)	† ·	1	†	<u> </u>	+	†
				<u> </u>	INFARCT	 	i	 		+	+
				T	(50) THERMAL BURN	 	 -	 	†	<u> </u>	
				5	(52) FOREIGN BODY	m	 		 		+
					IN ORIFICE (20) LACERATION	 	 	ļ	 	+	+
+				<u> </u>	PERFORATION	ł	 	 	 	-	+
			 	+	(32) SCRATCH	 		+	 	+	-
		+		†	(34) BITE	 	 	+	 	-	
				+	(05) ACOUSTIC	 	 	+		+	+
- +-				 	TRAUMA (02) CONTUSION	1111111	 	 	ļ		
_		-	-	 	(14) EDEMA		 	+	 	-	
				+	(48) HEMATOMA	-	<u> </u>	+			
				 	(28) HEMORRHAGE	-	 	 	_		
					(29) ABRASION	ļ	ļ				
					(01)	1	L	ļ	ļ. <u>.</u>		ļ
				 	DROWNING (55)	<u> </u>	ļ	1	ļ		1
				ļ	UNKNOWN/OTHER (99)	1		1	1	1	
				1	POISONING SYSTEMIC (65)	1		1			1-1-1
				1	MULTIPLE Extreme (98)			[1
	1				CODE NOT IN SAFECEN MANUAL (78)	1	1	T	T	1	1

	FOR THRO	/E DISTRIBUTION OF DIAGNOSES UGH-THE-CANOPY VS. JETTISON	ED-CANOPY EJECTION	DNS		
		(SURVIVORS ONLY)				
ODY PART: PELVIS	DVIVOBS - 179			# OF SURV	/IVORS - 941	
	IVIVORS - 179 I THE CANOPY			JETTISON	VIVORS - 941 ED-CANOPY	
		AMPUTATION (03)	1	`		`
		AVULSION (04)				
		DECAPITATION (16)				
		EVISCERATION (19)				
		TRANSECTION (47)				
		EXSAL SUINATION (43)				
		COMMINUTED FRACTURE (09) COMPOUND	Ш			
		FRACTURE (10) COMPOUND COMMINUTED				
		FRACTURE (11) COMPRESSION				
		FRACTURE (12) SIMPLE FRACTURE	- 			
		(26) CRUSHING	_ш			
		(15) DERANGEMENT				
		(45) DISLOCATION	 			-
	+	(46) TEAR MUSCLE/	- 		 	+
		LIGAMENT(40) STRAIN (36)				
		(36) SPRAIN (35)				
		CONCUSSION (13)				
		UNCONSCIOUSNESS (41)				
		COLD INJURY				
		SUBMERSION (NON FATAL) (74)				
		PNEUMO/HEMO THORAX (76)	I			
		TRAUMATIC SHOCK (60)				
		INTERNAL INJURY (64)	1			
		RUPTURE (33)		-		
		HEMORRHAGE (29) EMBOLISM/			ļ	
		BENDS (49)	1			
		(50) THERMAL BURN				
		(52) FOREIGN BODY	1	+ +		
		IN ORIFICE (20) LACERATION	-+			
		(30) PERFORATION	+ +			
		(32) SCRATCH		+		
	-+	BITE	1 +	+ +	- +-	
		ACOUSTIC TRAUMA (02)	+			
		CONTUSION (14)		.	+	
		EDEMA (48)		+	··= ·· · · · · ·	
	T	HFMATOMA (28)		†	†	
		HEMORRHAGE (29)	1 1		•	
		ABRASION (01)				
	Ţ	DROWNING (55)		; ;	1	
	· · · · · · · · · · · · · · · · · · ·	UNKNOWN/OTHER (99)			†	Ţ
	, ,	POISONING SYSTEMIC (65)	_			
		MULTIPLE Extreme (98)			I	
		CODE NOT IN SAFECEN MANUAL (78)		'	Ī	

		FOR THROUGH T	TRIBUTION OF DIAGNOSES B	CANOPY EJECTION	IS		
SODY PART: GRO	DIN		(SURVIVORS ONLY) -		- -		
ODT FART. GR	A OF SUBVIVORS 179				# OF SURVIVO	RS - 941 CANOPY	
,,,,,,	THROUGH THE CANOPY		AMPUTATION	 			111
			AVULSION	 			
			(04) DECAPITATION	_			
			(16) EVISCERATION	 - - - - - - - 			
	+		(19) TRANSECTION	 	+		
			(47) EXSANGUINATION	 	+		
	 		COMMINUTED	 			
	-		FRACTURE (09) COMPOUND	 			
			FRACTURE (10) COMPOUND COMMINUTED	 			
	 		FRACTURE (11) COMPRESSION	 			
 -			FRACTURE (12) SIMPLE FRACTURE	 	 		
			CRUSHING	 			
			(15) DERANGEMENT (45)	 		+	
1	1		DISLOCATION (46)	†	 		
			TEAR MUSCLE/				
			STRAIN (36)				
<u> </u>			SPRAIN (35)				
			CONCUSSION (13)				
			UNCONSCIOUSNESS (41)				
			COLD INJURY (71)				
			SUBMERSION INON FATAL) (74)				
			PNEUMO/HEMO THORAX (76)				
			TRAUMATIC SHOCK (80)				
			INTERNAL INJURY (64)				
			RUPTURE (33)				
			HEMORRHAGE (29)	<u> </u>			ļ
			EMBOLISM/ BENDS (49) INFARCT				
			(50) THERMAL BURN	ļ.,			
			(52) FOREIGN BODY	Ш			ļ
			IN ORIFICE (20)	 			<u> </u>
	+		(30) PERFORATION	 			
			(32) SCRATCH	 			
		 	(34) BITE	 			
	+		(05) ACOUSTIC	1			
	+	 	CONTUSION				
		 	(14) EDEMA				<u> </u>
	- +		HEMATOMA	 			
		 	(28) HEMORRHAGE	 			
			(29) ABRASION (01)	Immuni	 - - - - - - - -		
	+		DROWNING	 			
			UNKNOWN/OTHER	 			
			POISONING SYSTEMIC (65)	†	† †	+	·
			MULTIPLE	†			
			CODE NOT IN SAFECEN	+ · · · · · · · · · · · · · · · · · · ·	+ +	4 -4	

		FOR THROUGH-THI	IBUTION OF DIAGNOSES BE-CANOPY VS. JETTISONED	-CANOPY E	JECTIONS				
ODY PART: BACK			— (SURVIVORS ONLY) —				_		
	* OF SURVIVORS - 179 IROUGH THE CANOP					of SURV	IVORS - 941 ED-CANOI		
., , , , , , , , , , , , , , , , , , ,	TTTTTTTT	Y 				JE111301	T T T T	,	777
			AMPUTATION (03)	ļ		ļ			4
			AVULSION (04)	ļ				ļ.:	
			DECAPITATION (16)	1					1
			EVISCERATION (19)						
			TRANSECTION (47)	T					Τ
			EXSANGUINATION (43)						
			COMMINUTED FRACTURE (09)	Ţ					
			CON-FOUND FRACTURE (10)						
			COMPOUND COMMINUTED FRACTURE (11)						
	1	† · · · · · · · ·	COMPRESSION FRACTURE (12)				_		1
		 	SIMPLE FRACTURE (26)	1				1	
		<u> </u>	CRUSHING (15)					 	†
		† †	DERANGEMENT (45)	1				† · · · · ·	
			DISLOCATION	1				<u> </u>	†
	<u> </u>	+	(46) TEAR MUSCLE/	1	<u> </u>			+	
			LIGAMENT (40) STRAIN					 	+
 	-	2000	SPRAIN	 	шишш				1
		*	(35) CONCUSSION	 				 	+
		-	(13) UNCONSCIOUSNESS	+		 		ļ	
		-	(41) COLD INJURY	<u> </u>				ļ .	
		 	(71) SUBMERSION			 			
·· - ··-			(NON-FATAL) (74) PNEUMO/HEMO-	 				1	+
			THORAX (76)	 _		1		ļ	-
		 	SHOCK (60)					ļ	
			INJURY (64) RUPTURE	 - ·					+
			(33) HEMORRHAGE	ļ				1	ļ
			(29) EMBOLISM/						1
			BENDS (49)						
			INFARCT (50)	ļ					
			THERMAL BURN (52)	<u> </u>	<u> </u>				
			FOREIGN BODY IN ORIFICE (20)	1					
		<u> </u>	LACERATION (30)	1					
			PERFORATION (32)						
			SCRATCH (34)						
			BITE (05)						<u> </u>
			ACOUSTIC TRAUMA (02)						1
		5						1	1
		T	EDEMA (48)	T		1		 	
1			HEMATOMA (28)	Ti Ti				†	
1		ţ	HEMORRHAGE	"		† 			+
		 	ABRASION	1		 		 	+
- - 		 	(01) DROWNING	₩		++		 	+
		 	(55) UNKNOWN/OTHER	+		 		 	
		· · · · · · · · · · · · · · · · · · ·	(99) POISONING	 	<u> </u>	+		ļ	
· 		 	SYSTEMIC (65) MULTIPLE	 		 			-
		ļ · · · ·	EXTREME (98) CODE NOT IN SAFECEN	+	ļ	ļ.			_
		1 1	MANUAL (78)	1		1		1	

					RIBUTION OF DIAGNOSES E E-CANOPY VS. JETTISONED						
ODY PART	: BUTTOCKS				— (SURVIVORS ONLY) —						
		RVIVORS - 179 1-THE-CANOP	Υ		<u> </u>	 -		∓ OF SU JETTISC	RVIVORS - 94 ONED CANO	PY	
,,,,	,,,,,,,		1	1111	AMPUTATION	11771	1111	77777	 	7777	7777
			+	 	(03) AVULSION	 	·}	 	 		+
 				 	(04) DECAPITATION		-	 	 -	+	
+			 	 	116) EVISCERATION		 	 -	+		 - -
			 	 	(19) TRANSECTION						_
				 	(47) EXSANGUINATION		 	···	ļ		-
			-	 	(43) COMBONUTED	}		-	 	+	
			-		FRACTURE (09)			 	 	+	
—— 			-	_	FRACTURE (10) COMPOUND COMMINUTED	ļ	 	 	 	4	
			 	<u> </u>	FRACTURE (11) COMPRESSION	!		 			
			 		FRACTURE (12) SIMPLE FRACTURE	 		+	 		
		-+		 	(26) CRUSHING	 	 	 			+
		-+	 		(15) DERANGEMENT	 	ļ	 	 		
	· · · · · · · · · · · · · · · · · · ·	+	 		(45) DISLOCATION	_		 	 	 	-
			 	 	(46) TEAR MUSCLE/		1	_			-
			ļ	ļ	LIGAMENT(40) STRAIN	-		<u> </u>		ļ	
		_	ļ		(36)	↓		ļ			ļ
			ļ	ļ	SPRAIN (35)			ļ	ļ		<u> </u>
					CONCUSSION (13)	ļ			<u> </u>		
				<u> </u>	UNCONSCIOUSNESS (41)						
					COLD INJURY (71)						
			<u> </u>		SUBMERSION INON FATAL) (74)	<u> </u>		}			
			ļ		PNEUMO/HEMO THORAX (76)	L	<u> </u>				
			ļ	ļ	TRAUMATIC SHOCK (60)	1					
			<u> </u>	1	INTERNAL INJURY (64)						
					RUPTURE (33)			T		1	
					HEMORRHAGE (29)	1					
					EMBOLISM/ BENDS (49)	1	1	1	1		
					INFARCT (50)	T		+	†	1	_
					THERMAL BURN (52)	1	<u> </u>	 	†	†	
					FOREIGN BODY IN ORIFICE (20)	1		 	<u> </u>	1	
			1		LACERATION (30)	i				 	+
			T	1	PERFORATION (32)	<u> </u>	<u> </u>	 	 	1	-
1					SCRATCH (34)	†	t	1	 -	 	
					BITE (05)	T		<u> </u>	<u> </u>	†	-
			†	İ	ACOUSTIC TRAUMA (02)	†···	† · · · · · ·	· + ·	<u> </u>	†	
			†		CONTUSION		 	+ -			+
		1	† - · · · ·		EDEMA	1		 	 -		+
			!		HEMATOMA	1	+	+		+	
					(28) HEMORRHAGE	f · ·		†		+	+
					(29) ABRASION	111		+	+		<u> </u>
					(01) DROWNING	Щ.		-	<u> </u>		ļ
		† -	<u> </u>	}	(55) UNKNOWN/OTHER	1		+	ļ	-	
	· · · - + · ·		†	•	(99) POISONING	ł	}	}	ł	ļ	
-			•	 	SYSTEMIC (65) MULTIPLE	ļ ·	L	ļ	•	1	
		+	•		EXTREME (98) CODE NOT IN SAFECEN	ļ		1	į		
	1		İ		MANUAL (78)	1	1	1	i	-	1

					CANOPY VS. JETTISONED (SURVIVORS ONLY)			•			
ODY PART:	· LUNGS				(30)(4)(40)(00)(2)						
OUT FART.		JRVIVORS - 179						# OF SU	RVIVORS 94	1	
	THROUG	GH-THE-CANOP	Υ			 		JETTISC	NED-CANC		
'''['	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	7 7 7 7 7 7	' ' ' ' '	, , , ,	AMPUTATION (03)			' ' ' '	' ' ' '		' ' ' '
			+		AVULSION (04)	† ·			T	1	
	-		 		DECAPITATION	<u>†</u>	 		1		
	+		+		(16) EVISCERATION	 			 	— ———	-
			+	-	(19) TRANSECTION	<u> </u>	•	 			
			+		EXSANGUINATION	ŧ ·			+	-	
			 		COF SINUTED	ł		÷			
	-		+ +-		COMPOUND			t			
		 -	 		FRACTURE (10) COMPOUND COMMINUTED	1	· · ·		 		
_			 		FRACTURE (11)	-	·	ļ	-		
			 		FRACTURE (12) SIMPLE FRACTURE	.		 			
			+		(26) CRUSHING	ļ	ļ	ļ			+
-+		-	+		(15) DERANGEMENT	<u> </u>	-		+		
		<u> </u>	 		(45) DISLOCATION	ļ	<u> </u>		-	+	
\longrightarrow			1		(46) TEAR MUSCLE/	 	ļ			 	
			1		LIGAMENTI40) STRAIN	 			1		
					(36)	ļ	ļ		ļ	<u> </u>	
					SPRAIN (35)				1		
					CONCUSSION (13)						
				l	UNCONSCIOUSNESS (41)	L					
	1				COLD INJURY (71)						
				Si Pi	SUBMERSION (NON FATAL) (74)						
					PNEUMO/HEMO THORAX (76)		1				
					TRAUMATIC SHOCK (60)						
					INTERNAL INJURY (64)	T					
				1	RUPTURE (33)	†· · · -	†		<u> </u>		
					HEMORRHAGE (29)	1	·	·			_
-			+		EMBOLISM/				 	+	+
		<u> </u>	† · · · · · ·		BENDS (49)	t			 	+	
			1		150) THERMAL BURN	† ·	· · · · · · · · · · · · · · · · · · ·		 		
		<u> </u>	+ +		(52) FOREIGN BODY	t			+		
			 		LACERATION	1	·	·	+		-
			+		PERFORATION		ļ	 		+	
+			+		SCRATCH	†	!	 	+	+	
					(34) BITE]	 		 	+	
	+		++		ACDUSTIC	 		 		-	-+
	-		+		TRAUMA (02)	ł ·		 	ļ		
			+		- (14) EDEMA		ļ		4		-
			+		148) HEMATOMA	ļ .		ļ	ļ	ļ	
					(28) HEMORRHAGE	1		ļ	ļ		
$\longrightarrow \downarrow$			 		(29)	1	-	.	+	.	
			+		ABRASION (01)	1	<u> </u>	ļ	<u>.</u> _	ļ	
			1	1	DROWNING (55)	l .	•	1		1	
				I	UNKNOWN/OTHER (99)	1				[Ţ
			1		POISONING SYSTEMIC (65)		I		:		1
				1	MULTIPLE EXTREME (98)	1	† · · · · · · · · · · · · · · · · ·	Ī.,	1	1	
		+	inger en anne en 🛊 au		CODE NOT IN SAFECEN	•	+	+	4		4 .

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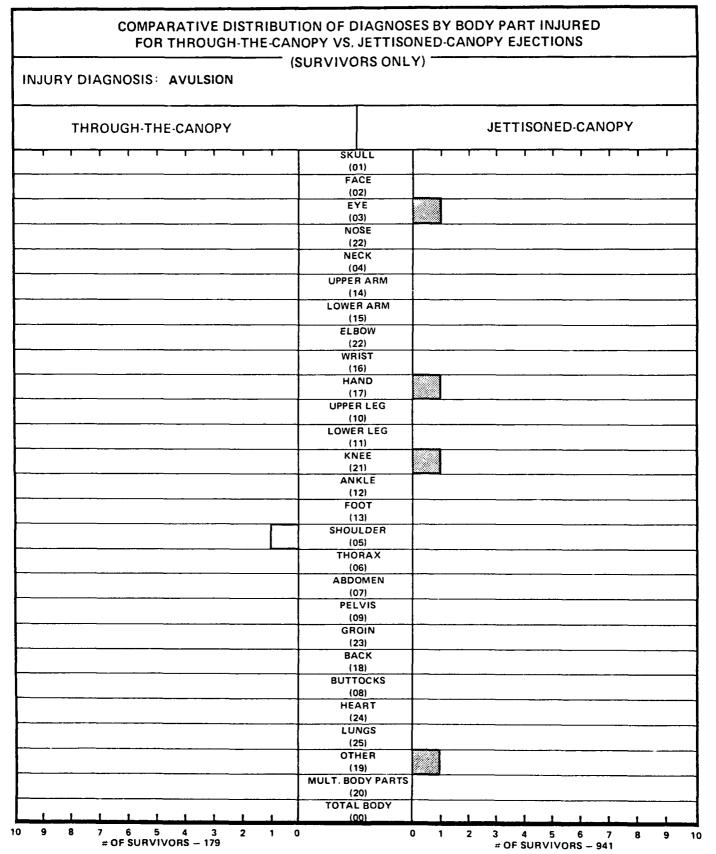
		COMPARATIVE DIS FOR THROUGH-1	TRIBUTION OF DIAGNOSES E THE CANOPY VS. JETTISONED	BY BODY PAR D-CANOPY EJI	T INJURED ECTIONS				
			(SURVIVORS ONLY) -						
ODY PART									
	# OF SURVIVORS - 17 THROUGH THE CAN	9 OPY				JETTISON	ED-CANOPY		
•	 		AMPUTATION	T		1 1 1 1 1		1111	
			(03) AVULSION						
			(04) DECAPITATION	Щ					+
			(16) EVISCERATION	 					+
			(19) TRANSECTION	╂┼					+
			(47) EXSANGUINATION	 					
			(43) COMMINUTED	 		-			
			FRACTURE (09)	 					
	+		FRACTURE (10) COMPOUND COMMINUTED	 					-
			FRACTURE (11) COMPRESSION	 					┼
		+	FRACTURE (12) SIMPLE FRACTURE	 					+
			(26) CRUSHING	 					ļ
			(15) DERANGEMENT						-
			(45) DISLOCATION	 					
-+		 	(46) TEAR MUSCLE/	 					
			LIGAMENT(40) STRAIN	 			+		-
			(36) SPRAIN	 					
	-		(35) CONCUSSION	 				·	
			(13) UNCONSCIOUSNESS	 	 - -				1
			(41) COLD INJURY	1					-
			(71) SUBMERSION	}					
-+			(NON FATAL) (74) PNEUMO/HEMO	 					_
		+	THORAX (76)	 					 -
			SHOCK (60)	 					<u> </u>
			INJURY (64)	₩					
$- \downarrow -$			(33) HEMORRHAGE	ш					↓
-			(29) EMBOLISM/	.					<u> </u>
			BENDS (49)	 					ļ.
			(50) THERMAL BURN						<u> </u>
			(52) FOREIGN BODY	_					ļ
			IN ORIFICE (20) LACERATION	hours					
			(30) PERFORATION						
			(32) SCRATCH	↓ ↓					<u> </u>
			(34) BITE	1					<u> </u>
			(05) ACOUSTIC	_					
			TRAUMA (02) CONTUSION	 					
			CONTUSION (14) EDEMA	↓ ↓					
$-\!\!+\!\!-$			(48)	<u></u>					
			HEMATOMA (28)	Щ					
			HEMORRHAGE (29)	_		I	<u>.</u>		
			ABRASION (01)	ļ ļ		<u>.</u> T	I		$\prod_{i=1}^{n}$
			DROWNING (55)	1 [
			UNKNOWN/OTHER (99)				1		
			POISONING SYSTEMIC (65)						-
			MULTIPLE EXTREME (98)			1			1
, , .]		CODE NOT IN SAFECEN MANUAL (18)				†		1
25	20 15	10 5	0	0 5	10	<u></u>			ببيل

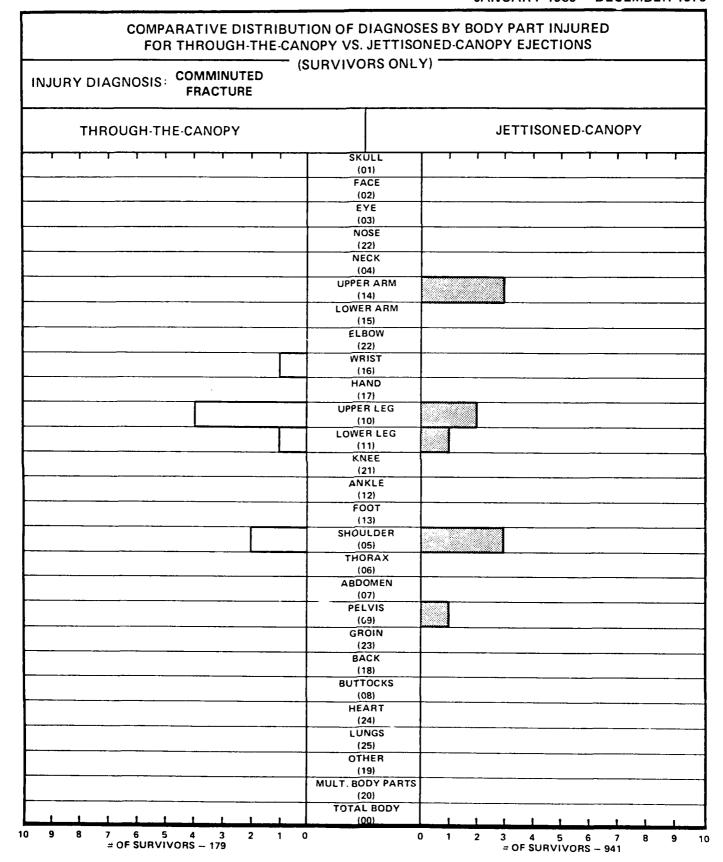
			RIBUTION OF DIAGNOSES I IE-CANOPY VS. JETTISONEI (SURVIVORS ONLY)	D-CANOPY EJECTIONS			
ODY PART: M	IULT. BODY PARTS						
	# OF SURVIVORS - 179 THROUGH THE CANOP		T	» OF SURVIVORS – 941 JETTISONED-CANOPY			
, , , , , , , , , , , , , , , , , , , 	THROUGH THE CANOP	,	AMPUTATION		321113011223		, T
			(03) AVULSION	.	ļ		
			(04) DECAPITATION	.			
		<u> </u>	(16) EVISCERATION	. 			
		ļ	(19) TRANSECTION	- 	 		
		ļ	(47) EXSANGUINATION		ļ		
		ļ	(43)				
		 	FRACTURE (09)	··	 		
		 	FRACTURE (10) COMPOUND COMMINUTED	+	ļ		
			FRACTURE (11)	· · · · · · · · · · · · · · · · · · · ·	ļ		
		 	FRACTURE (12) SIMPLE FRACTURE	hn	-		
			(26) CRUSHING	- 	 		
		 	(15) DERANGEMENT	1	 		
		 	DISLOCATION	 			
		 	(46) TEAR MUSCLE/	+	 		-
		<u> </u>	LIGAMENTI40)	-honor	 		
		+	(36) SPRAIN		+		
		 	CONCUSSION		 		
		 	(13) UNCONSCIOUSNESS	+	-		
		 	COLD INJURY		ļ	 -	
		 	(71) SUBMERSION	Ш. !	+		
		 	(NON FATAL) (74) PNEUMO/HEMO		ļ		
		 	THORAX (76)	+	++		
		 	SHOCK (60)				<u>-</u>
		 	NJURY (64)				
			(33) HEMORRHAGE				
		 	(29) EMBOLISM/	+ +			
			BENDS (49)	+ :	ļ ———		
_			(50)	hm :	+		
			FOREIGN BODY				
			(N OR(FICE (20)	h ,	 		
		<u> </u>	PERFORATION	ш	+		
		+	SCRATCH	+ -	+		
		+	(34) BITE	- 🕴			
		+	(05) ACOUSTIC	+	·		···
_		300	CONTUSION		<u> </u>	+ +	
		Mes is a	FDFMA		₩		
		+ +	(4R) HEMATOMA	† :	 - · · · · -		
		+	(28) HEMORRHAGE	+	+ +		
			(29) ABRASION		 - · · · 	+ + +	
	- 		DROWNING	 	i i	+ +	
		+	UNKNOWN/OTHER	+	1	1 1	
		+	POISONING	1	1	•	
$\overline{}$		+	SYSTEMIC (65) MULTIPLE	1		+	
			CODE NOT IN SAFECEN	+ - · ·	+ +		
		1	MANUAL (78)	ł I	1	1 1	

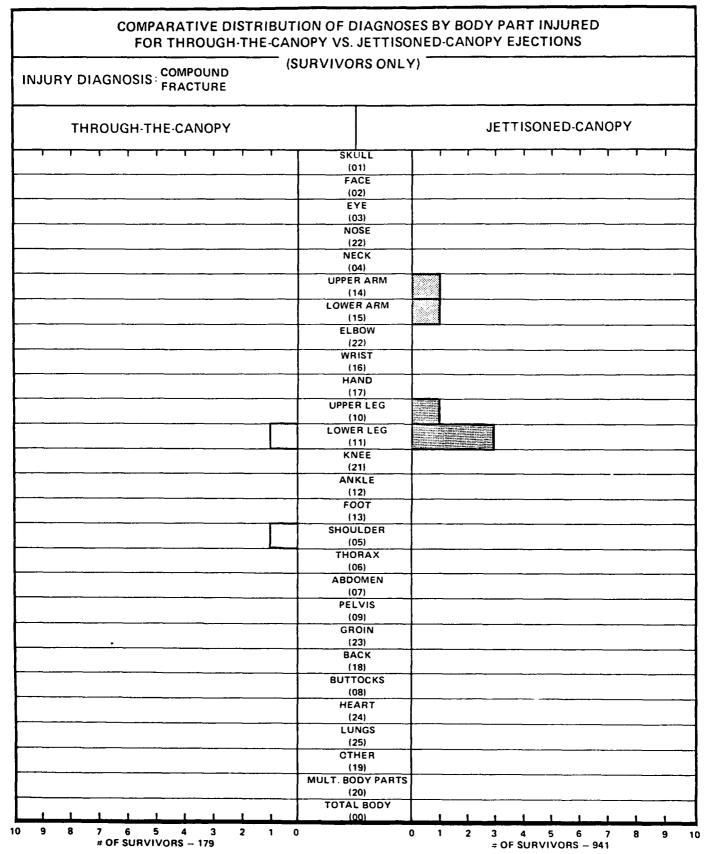
JANUARY 1969 - DECEMBER 1979

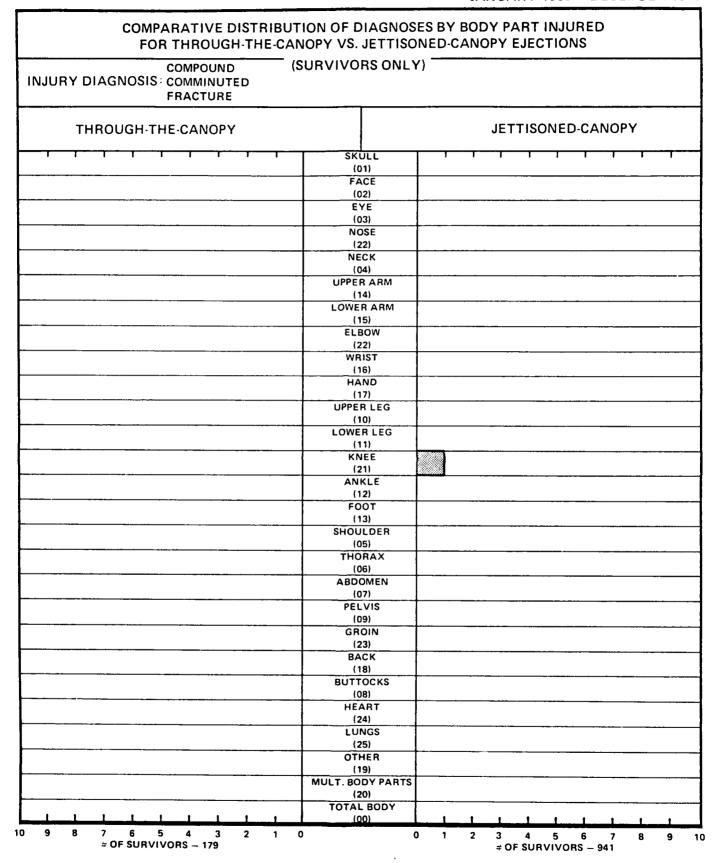
	F	OR THROUGH-THE-	BUTION OF DIAGNOSES B CANOPY VS. JETTISONED	-CANOPY EJE	CTIONS			
DV BART	TOTAL BODY		- (SURVIVORS ONLY) -		<u> </u>			
DUY PART	* OF SURVIVORS - 179 THROUGH-THE-CANOPY					# OF SURVIVORS -	- 941 NOPY	
		, , , , , , , , , , , , , , , , , , , 	AMPUTATION	 		11100125-02		
			(D3) AVULSION	∔				
			(04) DECAPITATION					
			(16)	├ ─				<u> </u>
			EVISCERATION (19)	1				
			TRANSECTION (47)					
			EXSANGUINATION (43)	<u> </u>				
			COMMINUTED FRACTURE (09)					
			COMPOUND FRACTURE (10)					
			COMPOUND COMMINUTED FRACTURE (11)					
			COMPRESSION FRACTURE (12)					
			SIMPLE FRACTURE (26)					
			CRUSHING (15)					
			DERANGEMENT (45)					
		1	DISLOCATION (46)					
_			TEAR MUSCLE/					
		-	STRAIN (36)					
			SPRAIN	 				
			(35) CONCUSSION	 				
			UNCONSCIOUSNESS	 				+
			(41) COLD INJURY				 	 -
		303	(71) SUBMERSION	1111111111111		- 		+
		2778	(NON-FATAL) (74) PNEUMO/HEMO	-				
			THORAX (76)	 				
			SHOCK (60)	₩				-
			INJURY (64) RUPTURE	 				
			(33) HEMORRHAGE					
			(29) EMBOLISM/	 -				
			BENDS (49)	_				
			INFARCT (50)					
			THERMAL BURN (52)					
			FOREIGN BODY IN ORIFICE (20)					
			LACERATION (30)					
			PERFORATION (32)					
			SCRATCH (34)					
			BITE (05)					
			ACC ISTIC TRAUMA (02)					
			CONTUSION (14)					<u> </u>
			EDEMA (48)					
			HEMATOMA (28)					
			HEMORRHAGE (29)					
			ABRASION	†				
			(01) DROWNING	†				
			UNKNOWN/OTHER	 		-		
			(99) POISONING	ш				+
			SYSTEMIC (65) MULTIPLE	 				
			EXTREME (98) CODE NOT IN SAFECEN	+ - · · · · · · · · · · · · · · · · · ·		+	+	+
		1	MANUAL 1781	1				1

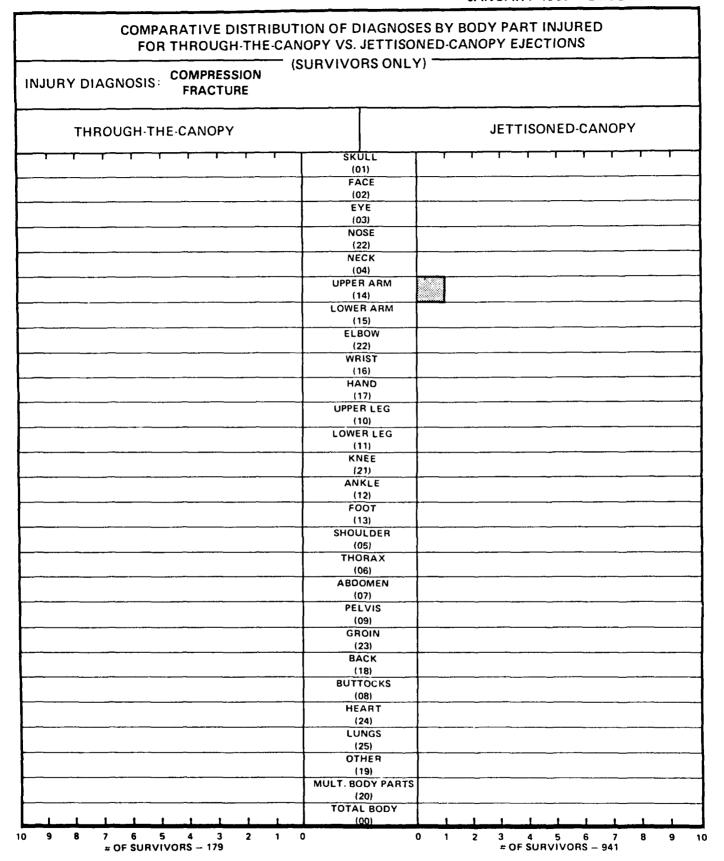
DIAGNOSIS: AMPUTATION	(SURVIVORS ONLY)	
THROUGH-THE-CANOPY		JETTISONED-CANOPY
, , , , , , , , , , , , , , , , , , , 	SKULL	
	(01)	
	FACE (02)	
	EYE	
	(03) NOSE	
	(22)	
	NECK (04)	
	UPPER ARM	
	(14) LOWER ARM	
	(15)	
	ELBOW (22)	
	(22) WRIST	
	(16)	
	HAND (17)	
	UPPER LEG	
	(10) LOWER LEG	
	(11)	
	KNEE (21)	
	ANKLE	
	(12) FOOT	
	(13)	
	SHOULDER (05)	
	THORAX	
	(06) ABDOMEN	
	(07)	
	PELVIS (09)	
	GROIN	
	(23) BACK	
	(18)	
	BUTTOCKS	
	(08) HEART	
	(24)	
	LUNGS (25)	
	OTHER	
	(19) MULT. BODY PARTS	
	(20) TOTAL BODY	

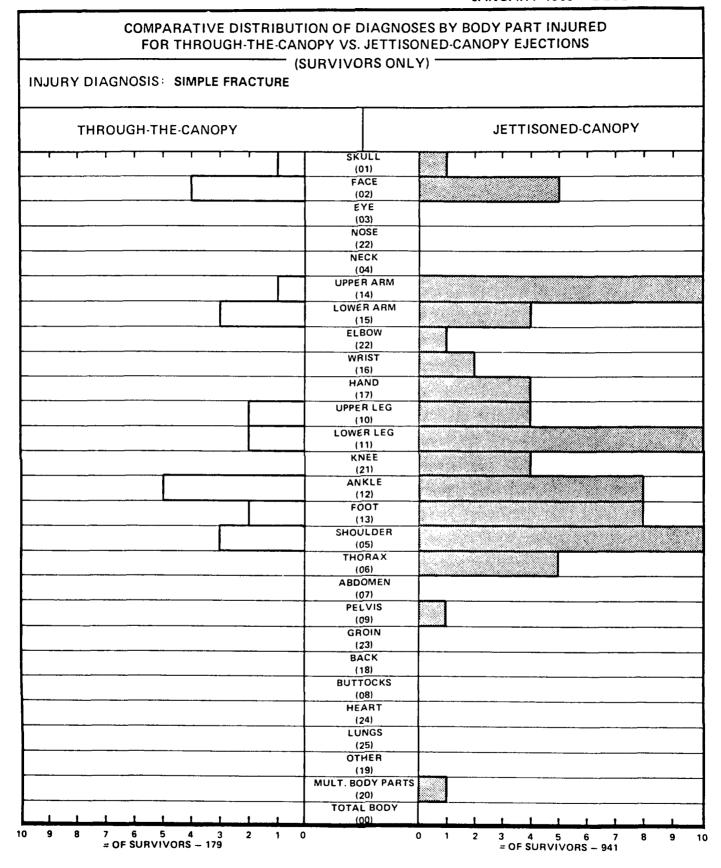


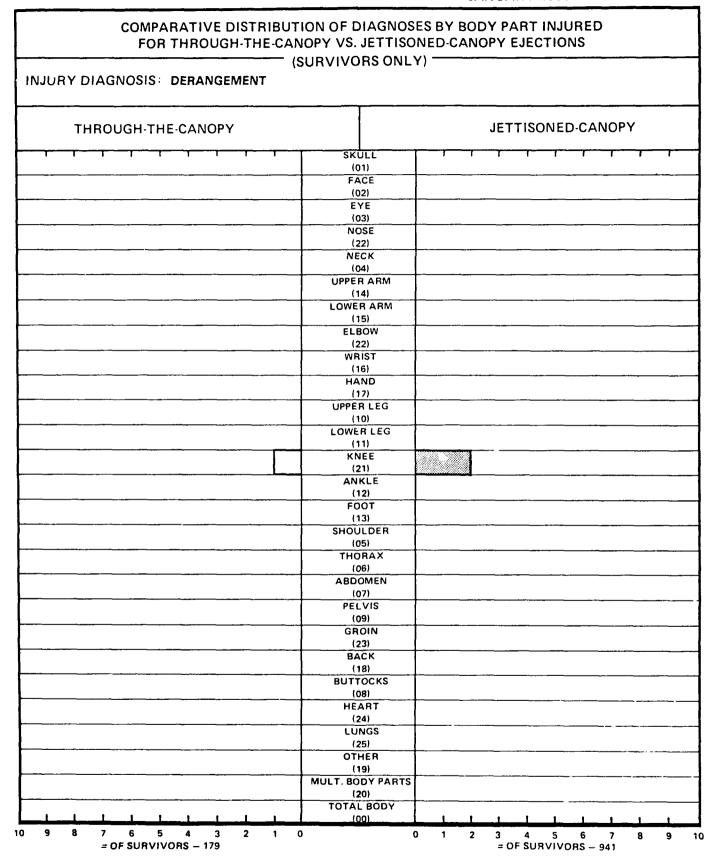




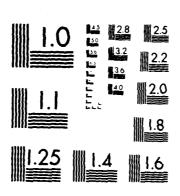




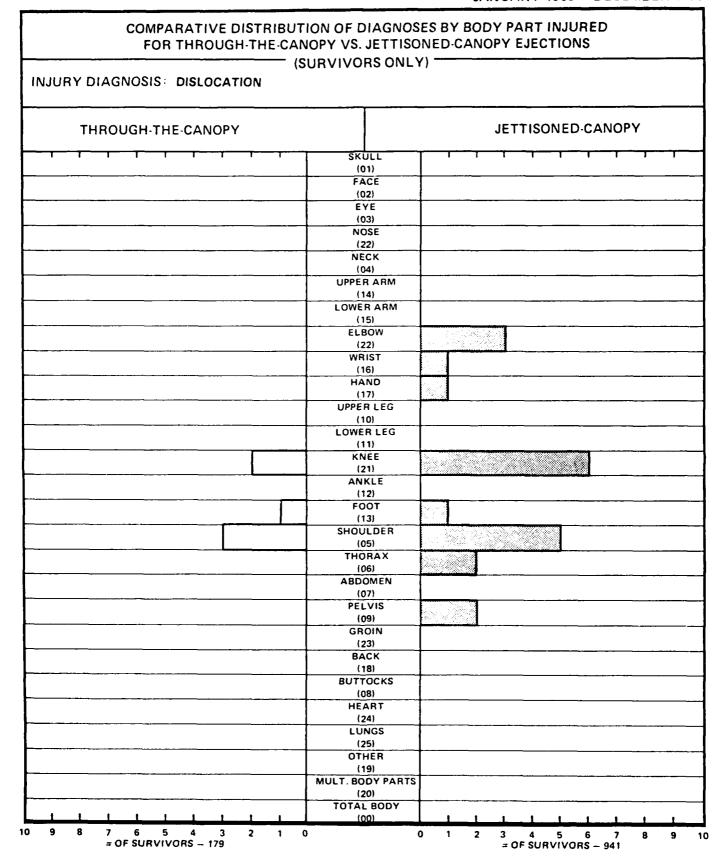


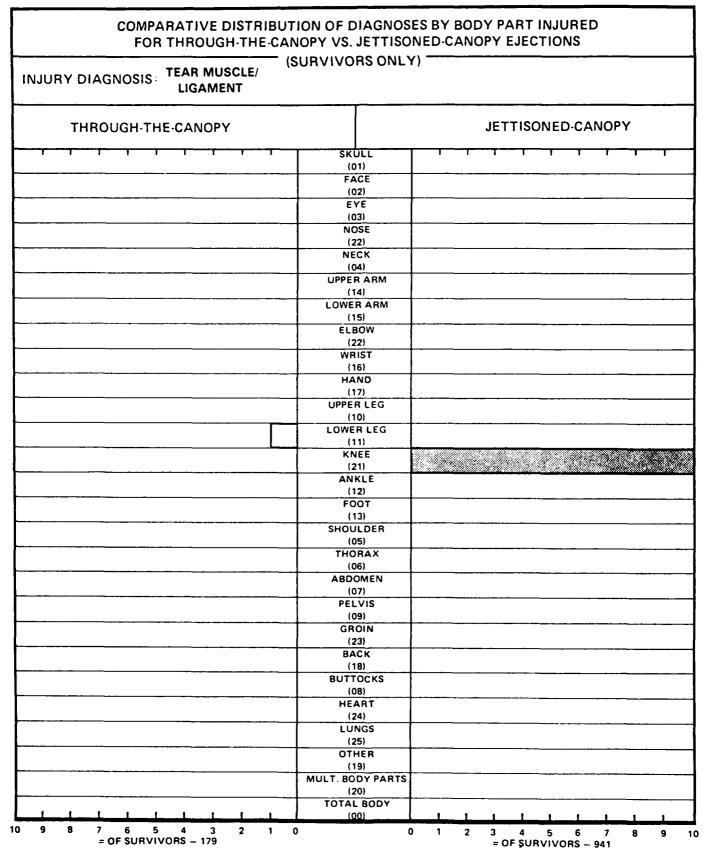


AIRCREN AUTOMATED ESCAPE SYSTEMS (ARES) DATA ANALYSIS PROGRAM SYMPOSIUM H. . (U) NAVAL SAFETY CENTER NORFOLK VA 1981 NO-8171 659 2/4 UNCLASSIFIED F/G 1/3

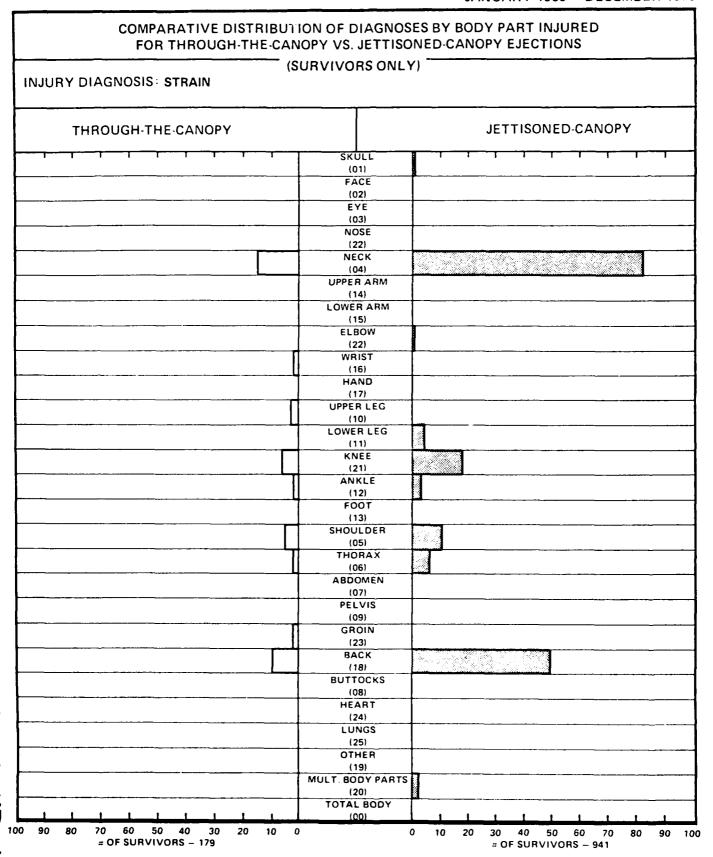


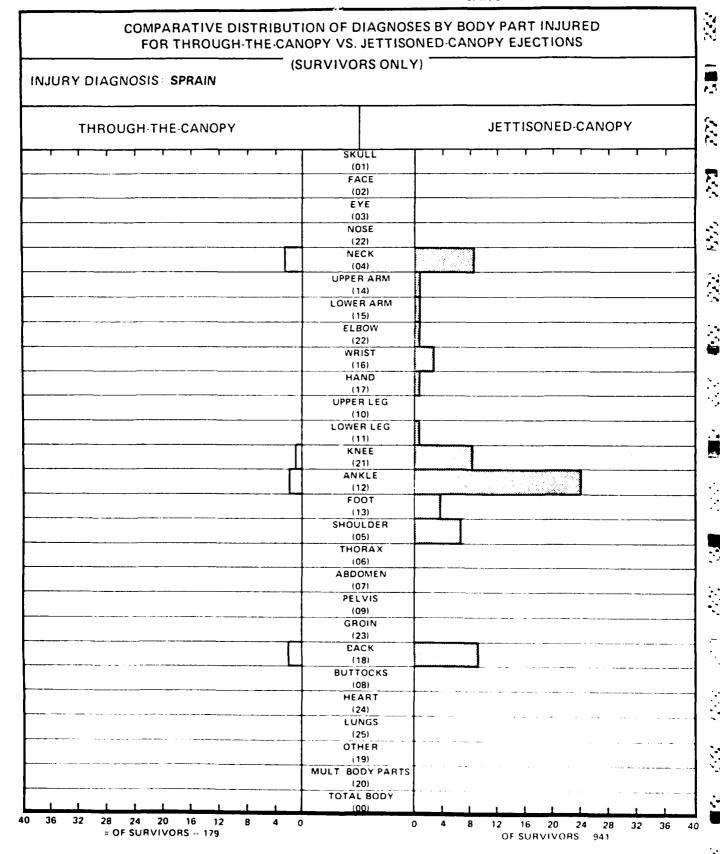
MICROCOPY RESOLUTION TEST CHART NATIONAL BUREAU OF STANDARDS 1963 A





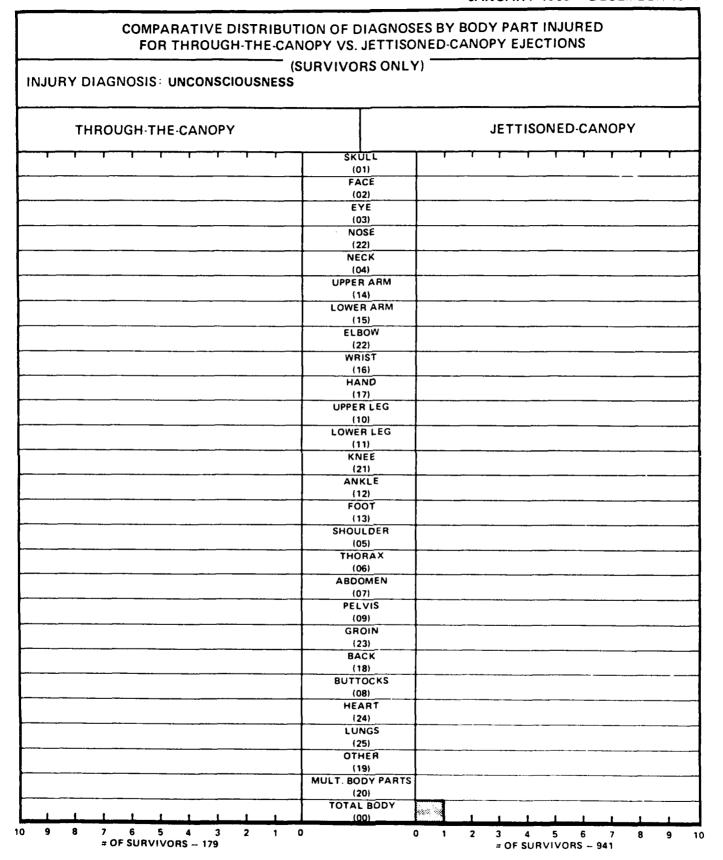
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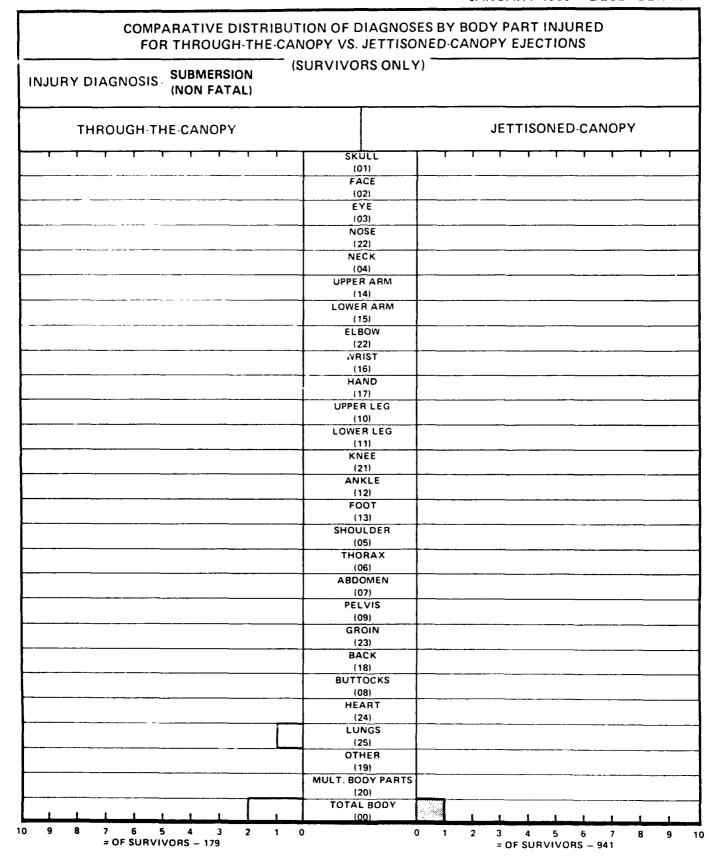
(SURVIVORS ONL	* /	
	JETTISONED-CAN	OPY
SKULL	1 1 1 1 1 1 1	Т
(02)		
EYE		
	 	
(22)	1	
NECK		
	<u> </u>	
(14)	1	
LOWER ARM		
	<u> </u>	-
(22)		
WRIST		
(17)		
UPPER LEG		
(11)	1	
KNEE		
	 	
(12)	<u> </u>	
]	
SHOULDER	 	
(05)		
		
(07)		
	j	
(23)		
]	
(08)		
]	
LUNGS	 	
(25)		
	 	
(20)		
	(01) FACE (02) EYE (03) NOSE (22) NECK (04) UPPER ARM (14) LOWER ARM (15) ELBOW (22) WRIST (16) HAND (17) UPPER LEG (10) LOWER LEG (11) KNEE (21) ANKLE (12) FOOT (13) SHOULDER (05) THORAX (06) ABDOMEN (07) PELVIS (09) GROIN (23) BACK (18) BUTTOCKS (08) HEART (24) LUNGS (25) OTHER (19) MULT BODY PARTS	(01) FACE (02) EYE (03) NOSE (22) NECK (04) UPPER ARM (14) LOWER ARM (15) ELBOW (22) WRIST (16) HAND (17) UPPER LEG (10) LOWER LEG (11) KNEE (21) ANKLE (12) FOOT (13) SHOULDER (05) THORAX (06) ABDOMEN (07) PELVIS (09) GROIN (23) BACK (18) BUTTOCKS (08) HEART (24) LUNGS (25) OTHER (19) MULT. BODY PARTS (20) TOTAL BODY

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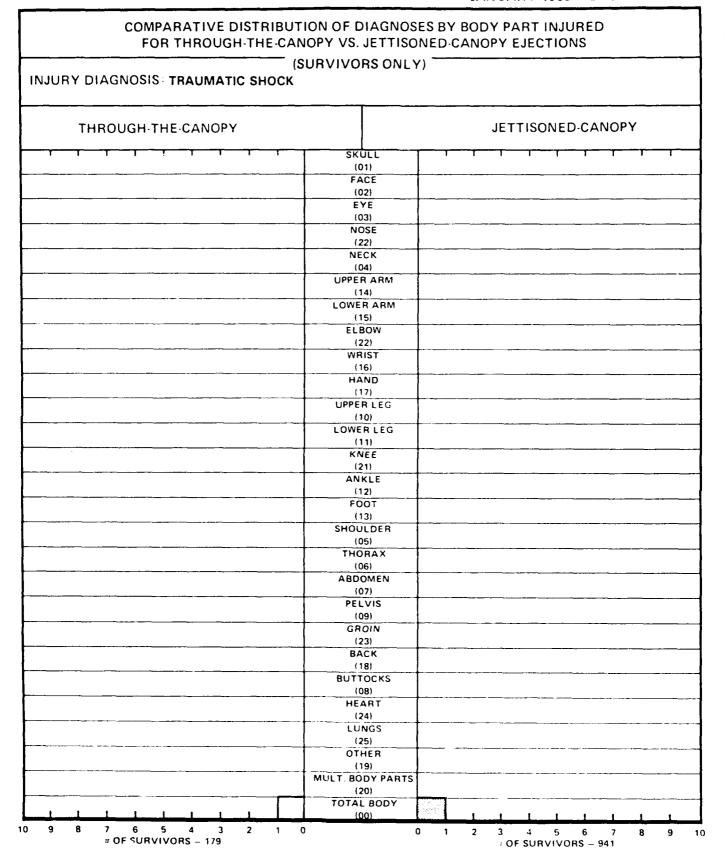
RY DIAGNOSIS: COLD INJURY						
THROUGH-THE-CANOPY		JETTISONED-CANOPY				
	SKULL					
	(01)					
	FACE (02)					
	EYE					
	(03)					
	NOSE (22)					
	NECK					
	(04)					
	UPPER ARM (14)					
	LOWER ARM					
	(15)					
	ELBOW (22)					
	WRIST					
	(16)					
	F ND (17)					
	UPPER LEG					
	(10)					
	LOWER LEG					
	(11) KNEE					
	(21)					
	ANKLE (12)					
	FOOT					
	(13)					
	SHOULDER (05)					
	THORAX					
	(06)					
	ABDOMEN (07)					
	PELVIS					
	(09)					
	GROIN (23)					
	BACK					
	[(18)]					
	BUTTOCKS					
	(08) HEART					
	(24)					
	LUNGS					
	(25) OTHER					
	(19)					
	MULT. BODY PARTS (20)					
	TOTAL BODY (00)					

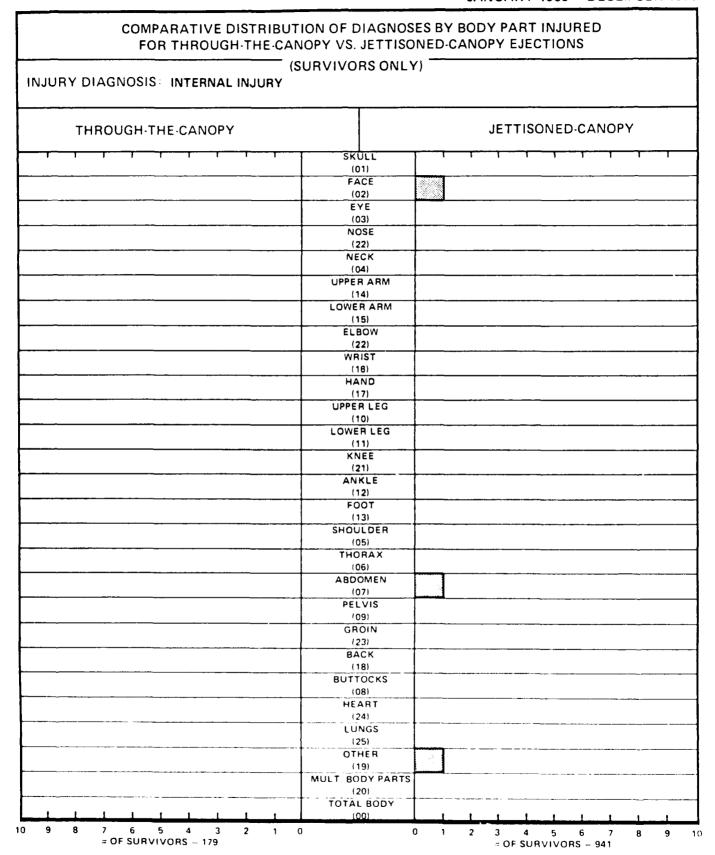
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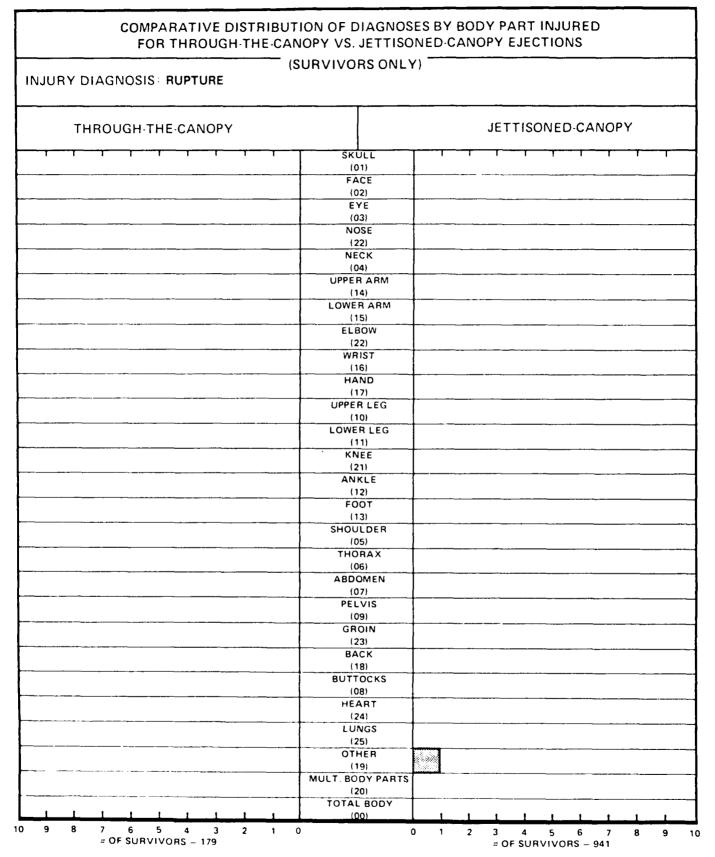


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	(SURVIVORS ONL	Υ)
Y DIAGNOSIS: PNEUMO/HEMO- THORAX	,20	
THROUGH-THE-CANOPY		JETTISONED-CANOP
, , , , , , , , , , , , , , , , , , , 	SKULL	
	(01)	
	FACE	
	(02) EYE	
	(03)	
	NOSE (22)	
	NECK	
	(04)	
=	UPPER ARM	
	(14) LOWER ARM	+
	(15)	
	ELBOW	
	(22) WRIST	+
	(16)	
	HAND	
	UPPER LEG	
	(10)	
	LOWER LEG	
	(11) KNEE	
	(21)	
	ANKLE	
	(12) FOOT	
	(13)	
	SHOULDER	
	(05) THORAX	
	(06)	
	ABDOMEN	
	(07) PELVIS	
	(09)	
	GROIN	
	(23) BACK	
	(18)	
	BUTTOCKS	
	(08) HEART	
	(24)	
	LUNGS	48
	(25) OTHER	
	(19)	
	MULT. BODY PART	S
	(20) TOTAL BODY	
1 1 1 1 1 1	101AL BODY	

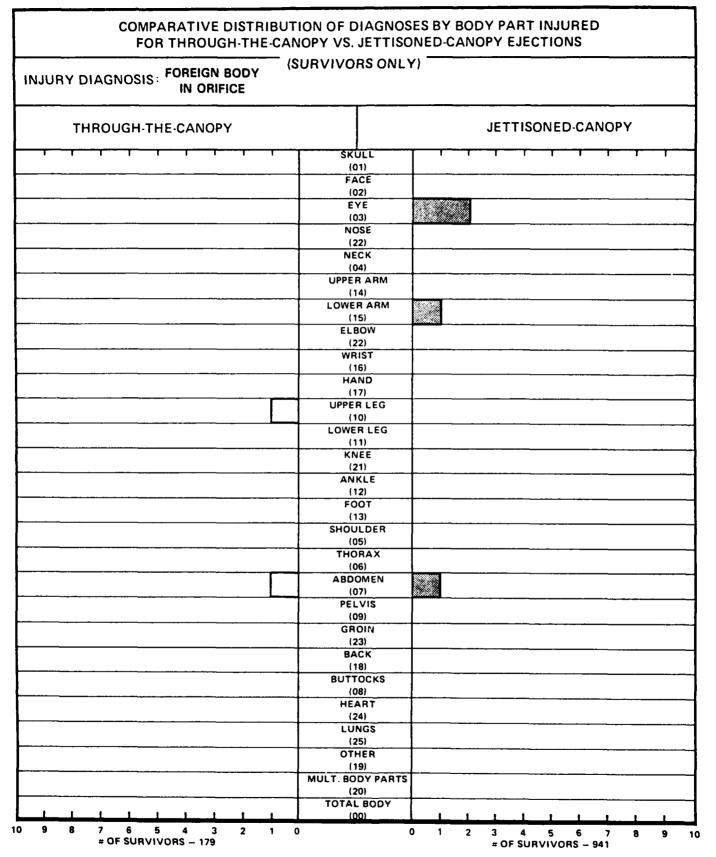




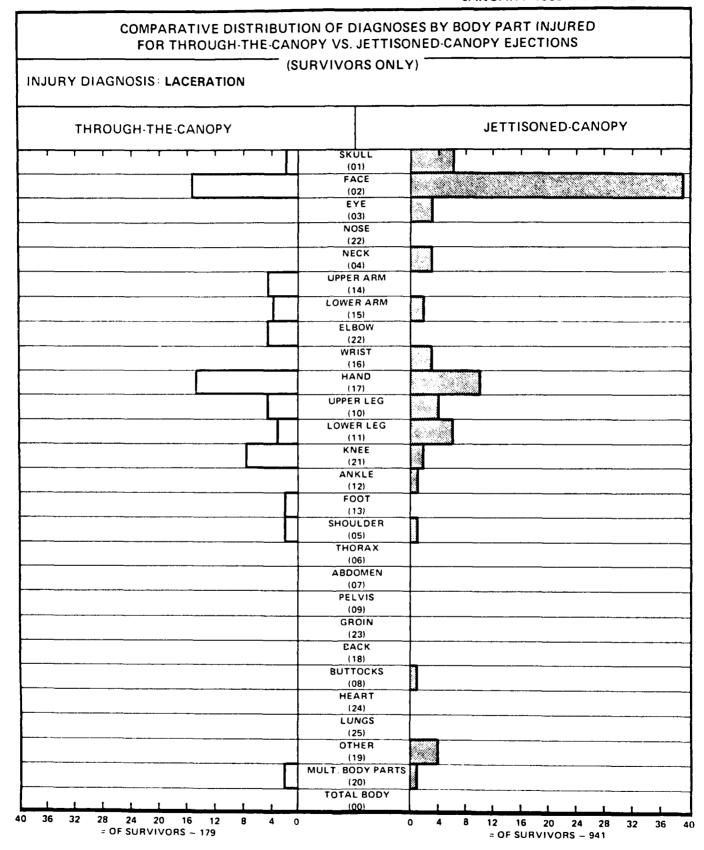


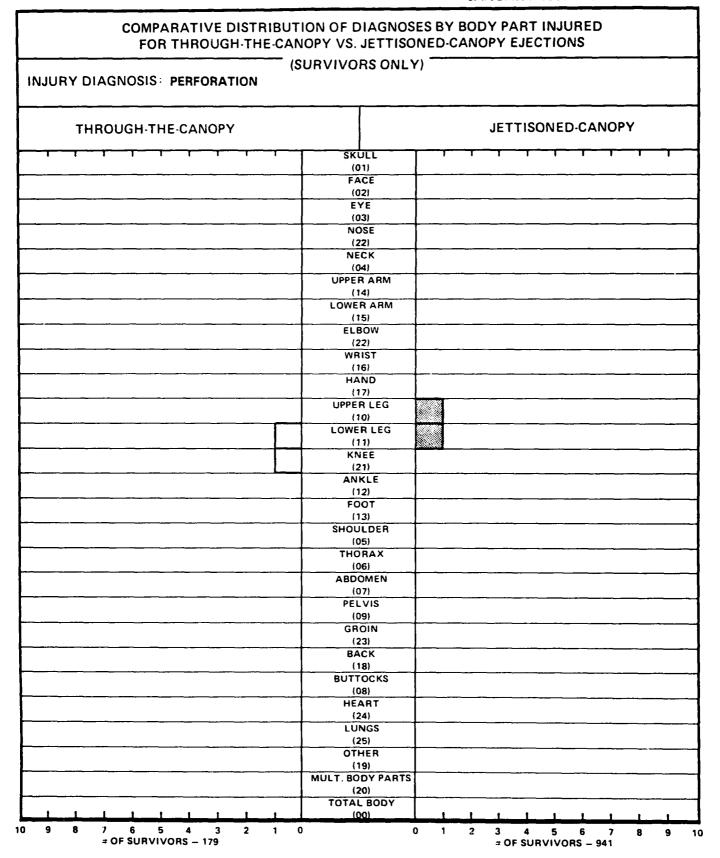
PROPERTY OF COLORS BRANCHEN GEORGESTER BRANCH

DIAGNOSIS: THERMAL BURN	(SURVIVORS ONI	_Y)
Dirigition The Politic		
THROUGH-THE-CANOPY		JETTISONED-CANOPY
	SKULL (01)	
	FACE	
	(02) EYE	
	(03)	
	NOSE (22)	
	NECK	
	UPPER ARM	
	(14)	
1	LOWER ARM (15)	
	ELBOW	
	(22) WRIST	
	(16) HAND	
	(17)	
	UPPER LEG (10)	
	LOWER LEG	
	(11) KNEE	
	(21)	
	ANKLE (12)	
	FOOT	
	(13) SHOULDER	
	(05) THORAX	
	(06)	
	ABDOMEN (07)	
	PELVIS	
	(09) GROIN	*****
	(23)	
	BACK (18)	
	BUTTOCKS	
	(08) HEART	
	(24)	
	LUNGS (25)	
	OTHER (19)	
Г	MULT. BODY PAR	TS
	(20) TOTAL BODY	



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PROPERTY SANSON CONTRACTOR PROPERTY

THROUGH-THE-CANOPY SKULL (01)	DIAGNOSIS: SCRATCH	SURVIVORS ONLY)	
(01) FACE (02) EYE (03) NOSE (122) NECK (104) UPPER ARM (14) LOWER ARM (15) ELBOW (122) WRIST (18) HAND (17) UPPER LEG (10) LOWER LEG (11) (11) KNEE (21) ANKLE (12) FOOT (13) SHOULDER (05) THORAX (06) ABDOMEN (07) PELVIS (09) GROIN (23) BACK (18) BUTTOCKS (08) HEART (24)	THROUGH-THE-CANOPY		JETTISONED-CANOP
(01) FACE (02) EYE (03) NOSE (122) NECK (04) UPPER ARM (14) LOWER ARM (15) ELBOW (122) WRIST (16) HAND (17) UPPER LEG (10) LOWER LEG (11) KNEE (21) ANKLE (12) FOOT (13) SHOULDER (06) ABDOMEN (07) PELVIS (09) GROIN (23) BACK (18) BUTTOCKS (08) HEART (24)		SKULL	
(02) EYE (03) NOSE (122) NECK (04) UPPER ARM (14) LOWER ARM (15) ELBOW (15) ELBOW (17) UPPER LEG (10) LOWER LEG (11) KNEE (21) ANKLE (12) FOOT (13) SHOULDER (05) THORAX (06) ABDOMEN (07) PELVIS (09) GROIN (23) BACK (18) BUTTOCKS (08) HEART (24)		(01)	
EYE (03) NOSE (122) NECK (04) UPPER ARM (14) LOWER ARM (15) ELBOW (122) WRIST (16) HAND (17) UPPER LEG (10) LOWER LEG (111) KNEE (211 ANKLE (121) ANKLE (121) FOOT (13) SHOULDER (05) THORAX (06) ABDOMEN (07) PELVIS (09) GROIN (23) BACK (18) BUTTOCKS (08) BUTTOCKS (08)			
NOSE (22) NECK (04) UPPER ARM (14) LOWER ARM (15) ELBOW (122) WRIST (16) HAND (17) UPPER LEG (10) LOWER LEG (21) ANKLE (21) ANKLE (12) FOOT (13) SHOULDER (05) THORAX (06) ABDOMEN (07) PELVIS (09) GROIN (23) BACK (18) BUTTOCKS (08) HEART (24)			
(22) NECK (04) UPPER ARM (14) LOWER ARM (15) ELBOW (122) WRIST (16) HAND (17) UPPER LEG (10) LOWER LEG (11) KNEE (21) ANKLE (12) FOOT (13) SHOULDER (05) THORAX (06) ABDOMEN (07) PELVIS (09) GROIN (23) BACK (18) BUTTOCKS (08) HEART (08)			
NECK (04) UPPER ARM (14) LOWER ARM (15) ELBOW (22) WRIST (16) HAND (17) UPPER LEG (10) LOWER LEG (11) KNEE (21) ANKLE (12) FOOT (13) SHOULDER (05) THORAX (06) ABDOMEN (07) PELVIS (09) GROIN (23) BACK (18) BUTTOCKS (08) HEART (24)			
UPPER ARM (14) LOWER ARM (15) ELBOW (22) WRIST (16) HAND (17) UPPER LEG (10) LOWER LEG (11) KNEE (21) ANKLE (12) FOOT (13) SHOULDER (06) ABDOMEN (06) ABDOMEN (09) GROIN (23) BACK (18) BUTTOCKS (08) HEART (24)		NECK	
(14) LOWER ARM (15) ELBOW (22) WRIST (16) HAND (17) UPPER LEG (10) LOWER LEG (11) KNEE (21) ANKLE (12) FOOT (13) SHOULDER (06) ABDOMEN (07) PELVIS (09) GROIN (23) BACK (18) BUTTOCKS (08) HEART (24)			
(15) ELBOW (22) WRIST (16) HAND (17) UPPER LEG (10) LOWER LEG (111) KNEE (21) ANKLE (12) FOOT (13) SHOULDER (05) THORAX (06) ABDOMEN (07) PELVIS (09) GROIN (23) BACK (18) BUTTOCKS (08) HEART (24)		(14)	
ELBOW (22) WRIST (16) HAND (17) UPPER LEG (10) LOWER LEG (111) KNEE (211) ANKLE (121) FOOT (113) SHOULDER (05) THORAX (06) ABDOMEN (07) PELVIS (09) GROIN (23) BACK (18) BUTTOCKS (08) HEART (24)			
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(16) HAND (17) UPPER LEG (10) LOWER LEG (11) KNEE (21) ANKLE (12) FOOT (13) SHOULDER (06) ABDOMEN (07) PELVIS (09) GROIN (23) BACK (18) BUTTOCKS (08) HEART (24)		(22)	
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(23) BACK (18) BUTTOCKS (08) HEART (24)			
(18) BUTTOCKS (08) HEART (24)		(23)	
BUTTOCKS (08) HEART (24)		I I	
HEART (24)			
(24)			
		LUNGS	
(25)			
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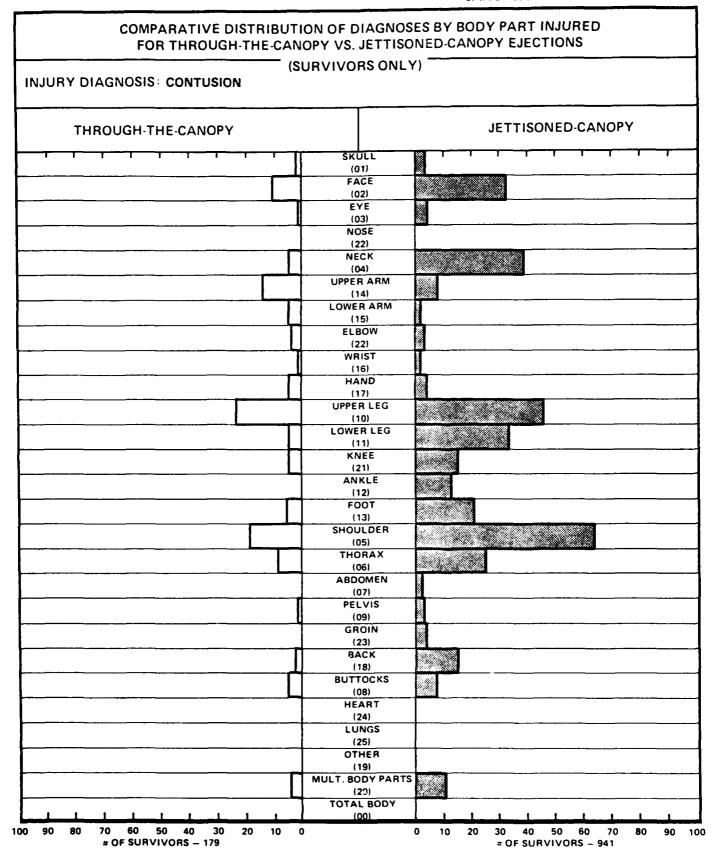
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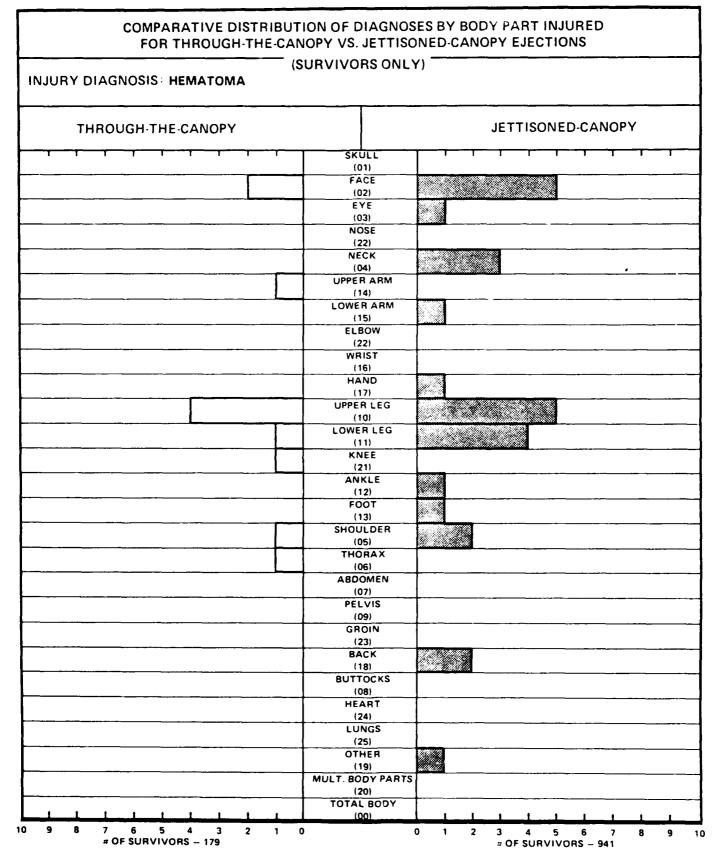
	(SURVIVORS ONL)	()
/ DIAGNOSIS: BITE	,= =	·
THROUGH-THE-CANOPY		JETTISONED-CANOPY
, , , , , , , , , , , , , , , , , , , 	SKULL	
	(01) FACE	
	(02)	
	EYE (03)	
	NOSE	
	(22)	
	NECK (04)	
	UPPER ARM	
	(14)	
	LOWER ARM (15)	
	ELBOW	
	(22) WRIST	
	(16)	
	HAND	
	(17) UPPER LEG	
	(10)	
	LOWER LEG (11)	
	KNEE	
	(21)	
	ANKLE (12)	
	FOOT	
	(13) SHOULDER	
	(05)	
	THORAX	
	(06) ABDOMEN	
	(07)	
	PELVIS	
	(09) GROIN	
	(23)	
	BACK	
	(18) BUTTOCKS	
	(80)	
	HEART	
	(24) LUNGS	
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	OTHER (10)	
	(19) MULT. BODY PARTS	
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	TOTAL BODY	

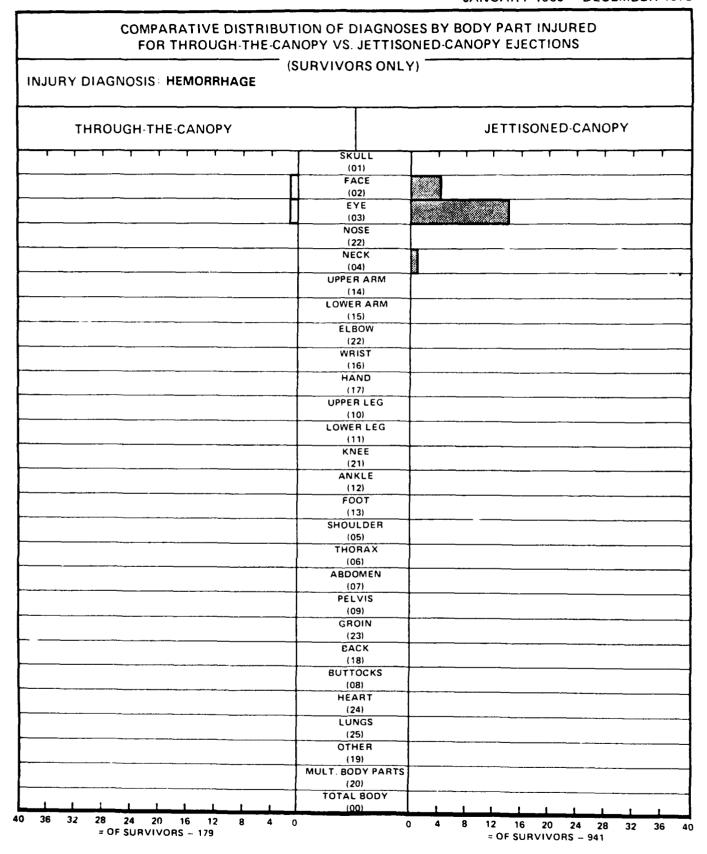
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	SURVIVORS ONLY	NED-CANOPY EJECTIONS
DIAGNOSIS: ACOUSTIC TRAUN		•
		
THROUGH-THE-CANOPY		JETTISONED-CANOP
	SKULL	, , , , , , , , , , , , , , , , , , ,
	(01) FACE	****
	(02)	
	EYE (03)	
	NOSE	
	(22) NECK	
·	(04)	
	UPPER ARM (14)	
	LOWER ARM	
	(15) ELBOW	
	(22)	
	WRIST (16)	
	HAND	
	UPPER LEG	
	(10)	
	LOWER LEG (11)	
	KNEE	
	(21) ANKLE	
	(12)	
	FOOT (13)	
	SHOULDER	
	(05) THORAX	
	(06)	
	ABDOMEN (07)	
	PELVIS	
	(09) GROIN	
	(23)	
	BACK (18)	
	BUTTOCKS	
	(08) HEART	
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	OTHER	
	(19) MULT. BODY PARTS	
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	TOTAL BODY (00)	

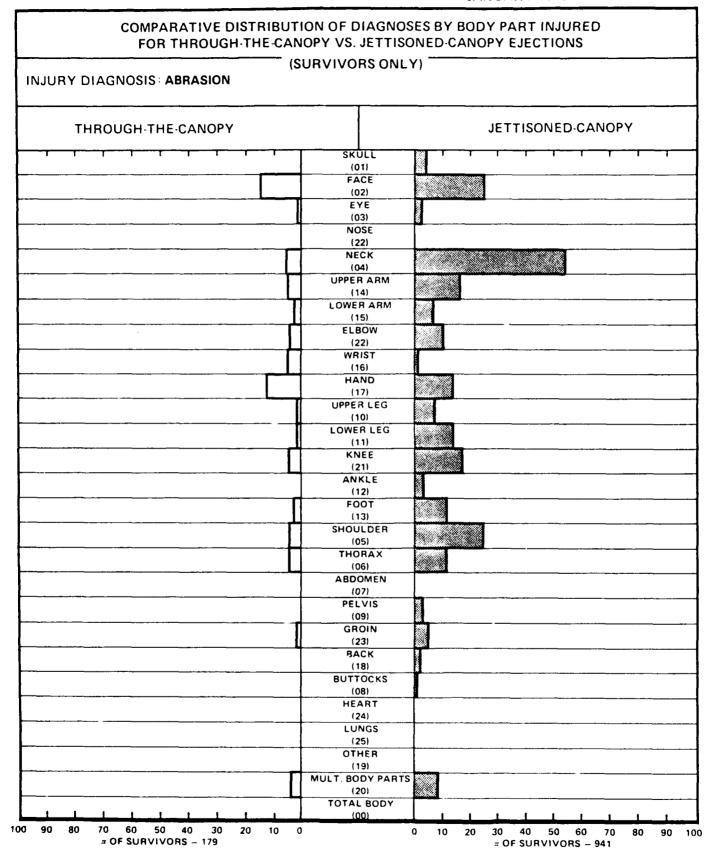


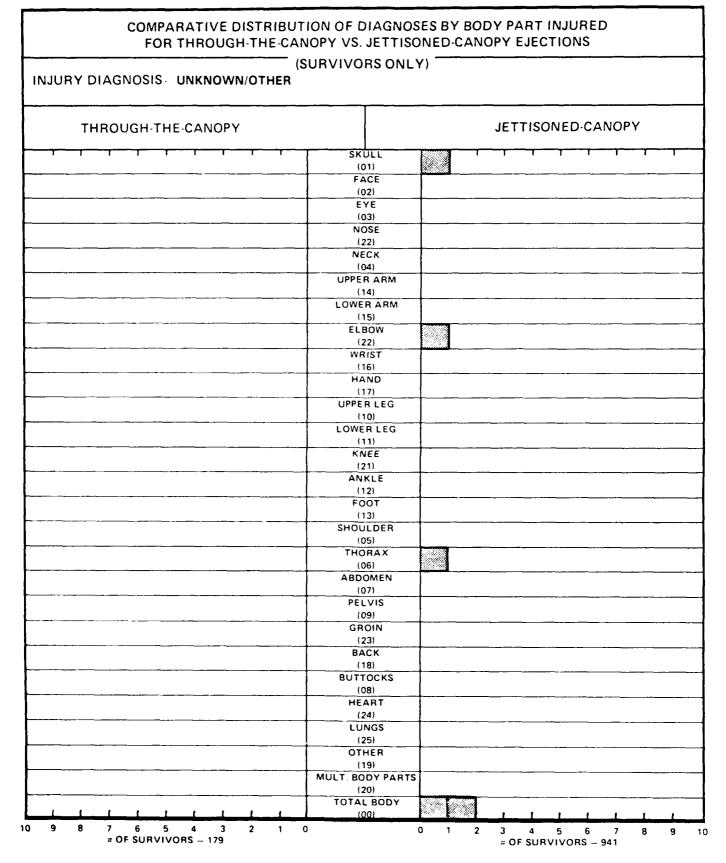
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THROUGH-THE-CANOPY			JETTIS	ONED-CANOPY
, , , , , , , , , , , , , , , , , , , 	SKULL			
	(01)			
	FACE	T		
	(02) EYE			
···	(03)			
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	(11)			
	KNEE (21)			
····	ANKLE	***************************************	· · · · · · · · · · · · · · · · · · ·	
	(12)	- 		
	FOOT (13)			
	SHOULDER	~		
	(05) THORAX			
	(06)			
	ABDOMEN			
	PELVIS	· 		
	(09)			
	GROIN			
	(23) BACK	-		
	(18)			
	BUTTOCKS (08)			
· · · · · · · · · · · · · · · · · · ·	HEART	 		·
	(24)	·		
	LUNGS (25)			
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	(20)	"		
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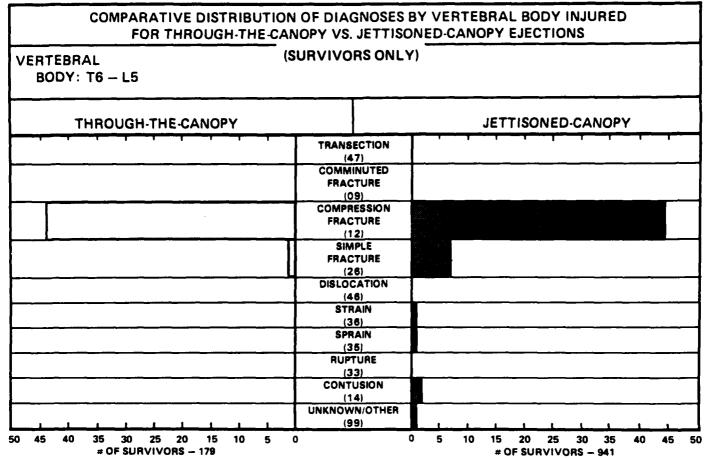
		NED-CANOPY EJECTIONS
RY DIAGNOSIS: CODE NOT IN SAF	(SURVIVORS ONLY) CEN	l
THROUGH-THE-CANOPY		JETTISONED-CANOPY
	SKULL	
	(01) FACE	
	(02)	
	EYE	
	(03) NOSE	
	(22)	
	NECK	
	(04) UPPER ARM	
	(14)	
	LOWER ARM	
	(15) ELBOW	
	(22)	
	WRIST	
	(16) HAND	
	(17)	
	UPPER LEG	
	(10) LOWER LEG	
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	KNEE	
	(21) ANKLE	
	(12)	
	FOOT	
	(13) SHOULDER	
	(05)	
	THORAX	
	(06) ABDOMEN	
	(07)	
-	PELVIS	
	(09) GROIN	
	(23)	
	BACK	
	(18) BUTTOCKS	
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	HEART	
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	OTHER	
	(19) MULT BODY PARTS	
	(20)	
	TOTAL BODY (00)	

JANUARY 1969 - DECEMBER 1979 COMPARATIVE DISTRIBUTION OF DIAGNOSES BY VERTEBRAL BODY INJURED FOR THROUGH-THE-CANOPY VS. JETTISONED-CANOPY EJECTIONS (SURVIVORS ONLY) **VERTEBRAL BODY: C1 - T5** THROUGH-THE-CANOPY JETTISONED-CANOPY TRANSECTION (47) COMMINUTED FRACTURE (09) COMPRESSION FRACTURE (12) SIMPLE **FRACTURE** (26) DISLOCATION (48) STRAIN (36)SPRAIN (35)AUPTURE (33) CONTUSION (14)UNKNOWN/OTHER (99) 18 20 18 16 12 10 2 10 12 14 16

OF SURVIVORS - 941

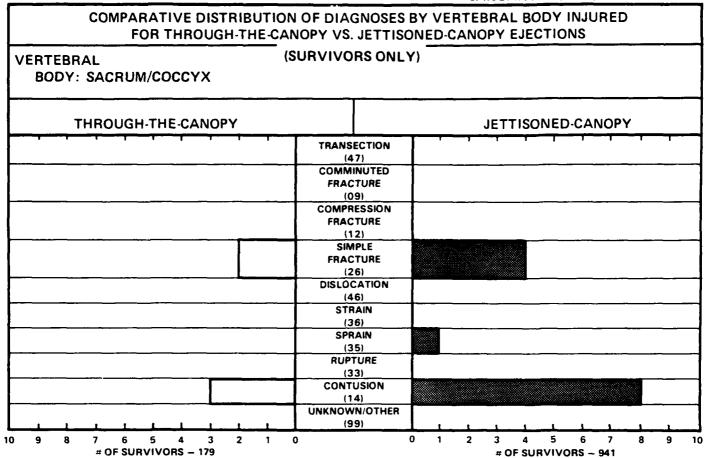
OF SURVIVORS - 179

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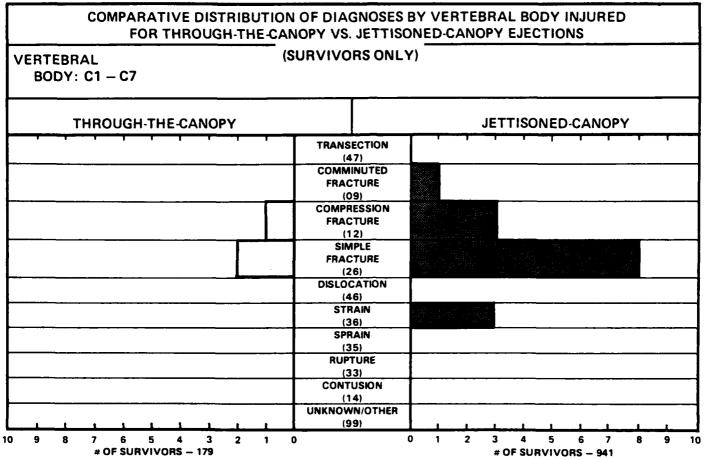


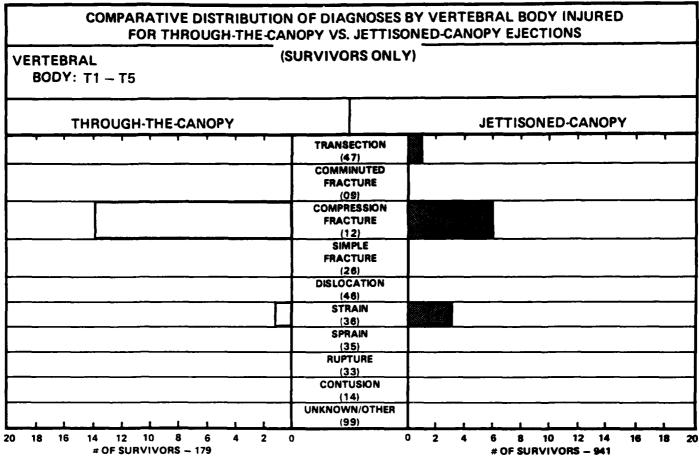
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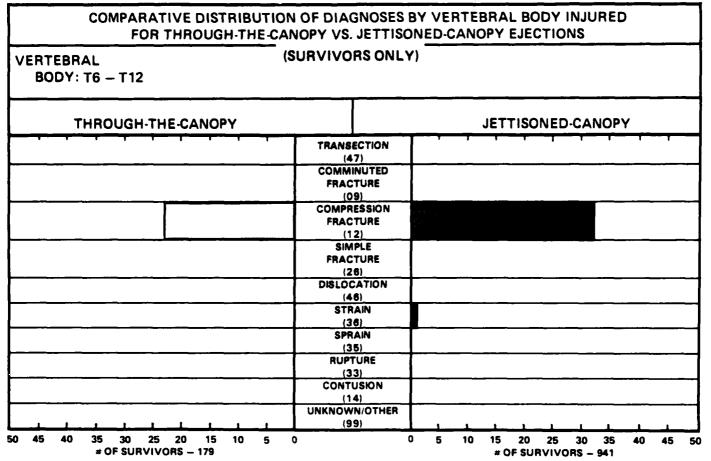


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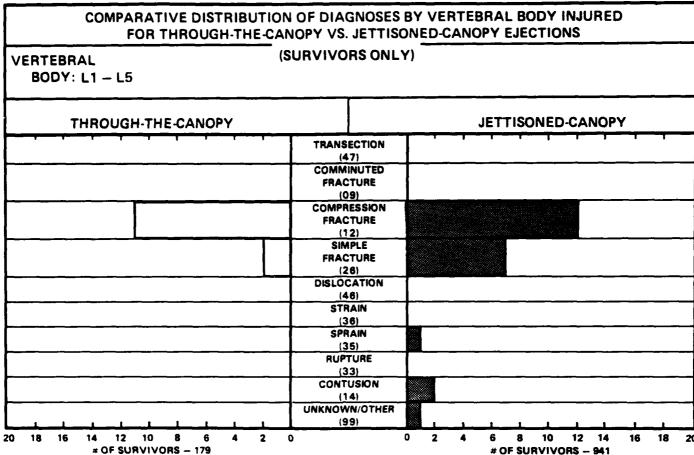


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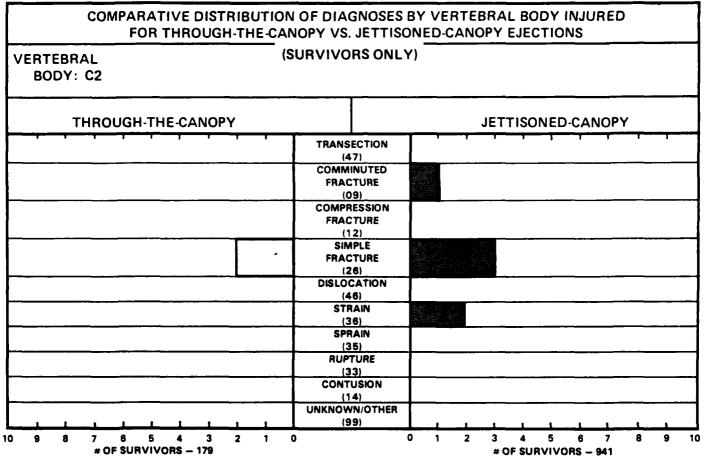


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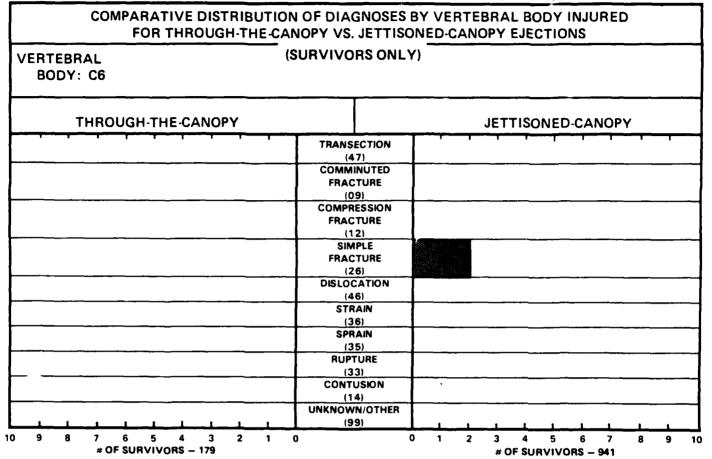
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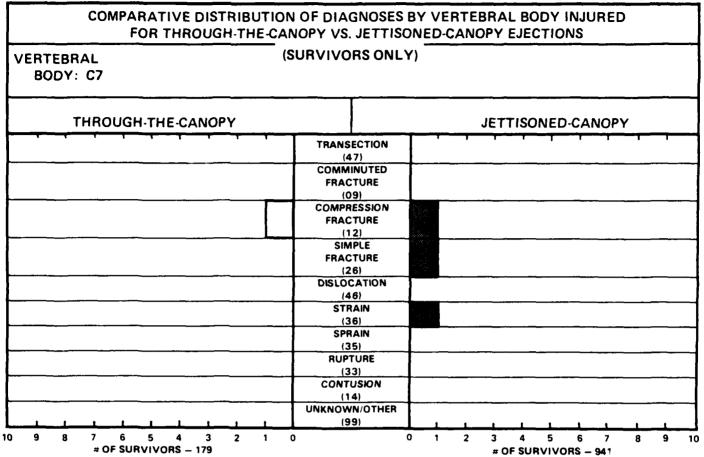
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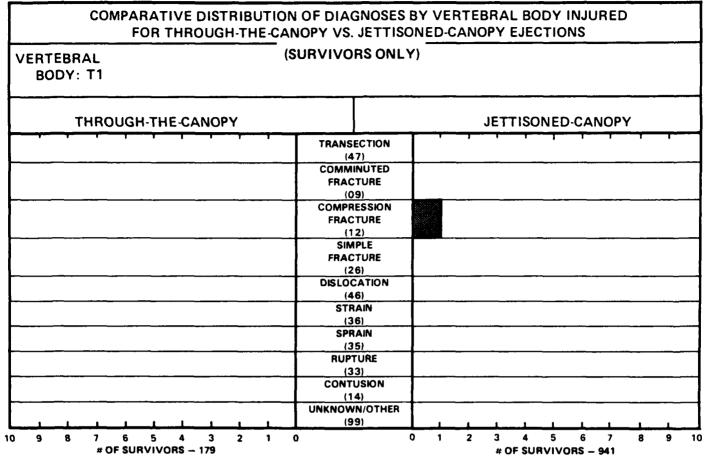
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COMPARATIVE DISTRIBUT FOR THROUGH-THE								ED			
VERTEBRAL BODY: C5	(SURVIVORS ONI	_Y)									
THROUGH-THE-CANOPY			J	ETTIS	SONE	D-C	ANC)PY			
	TRANSECTION				1			1	1	1 -	
	(47)										_
	COMMINUTED										
	FRACTURE	1									
	(09)		_								-
	COMPRESSION FRACTURE										
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·	SIMPLE	900000000000000000000000000000000000000									-
	FRACTURE										
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	DISLOCATION										-
	(46)	1									
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	RUPTURE										
	(33)	_i									
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9 8 7 6 5 4 3 2 # OF SURVIVORS — 179	1 0	0 1	2	3 4 # OF 9	\$ 5		•	•	8	9	

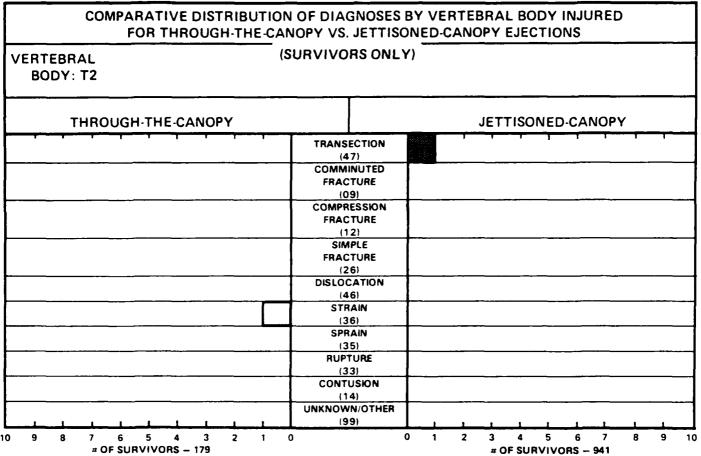


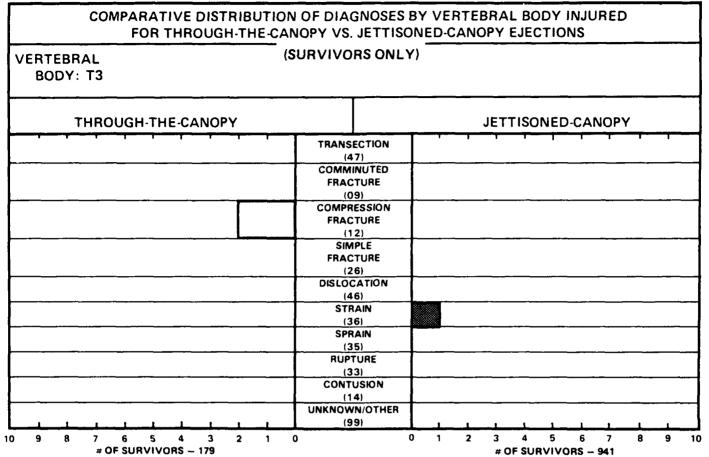
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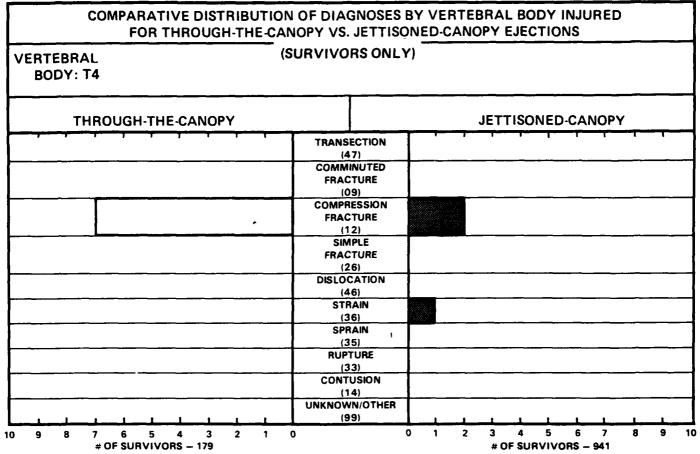




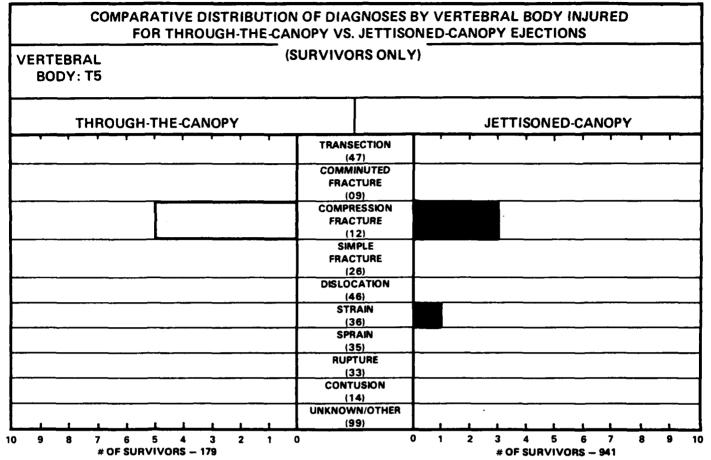
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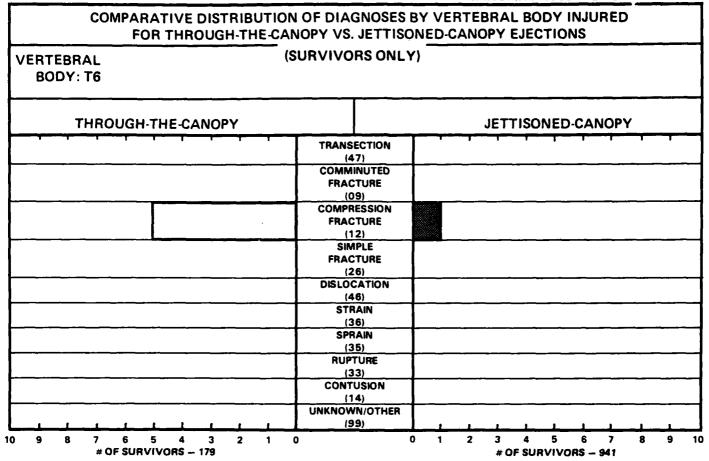




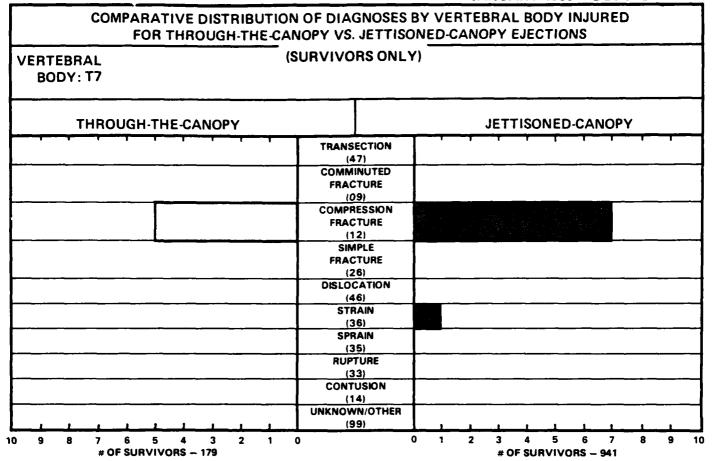


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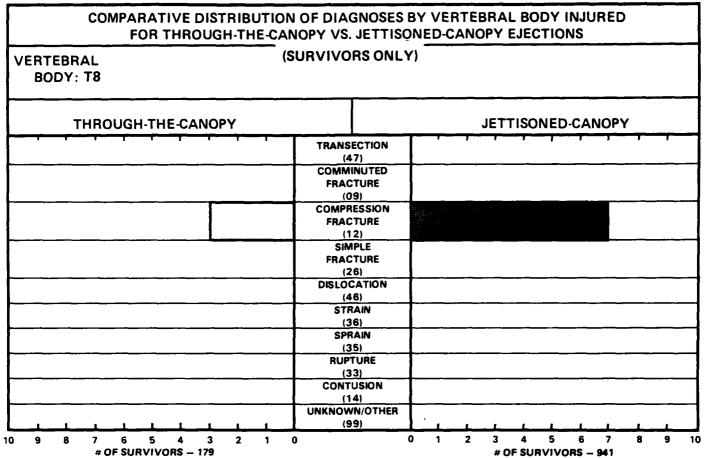


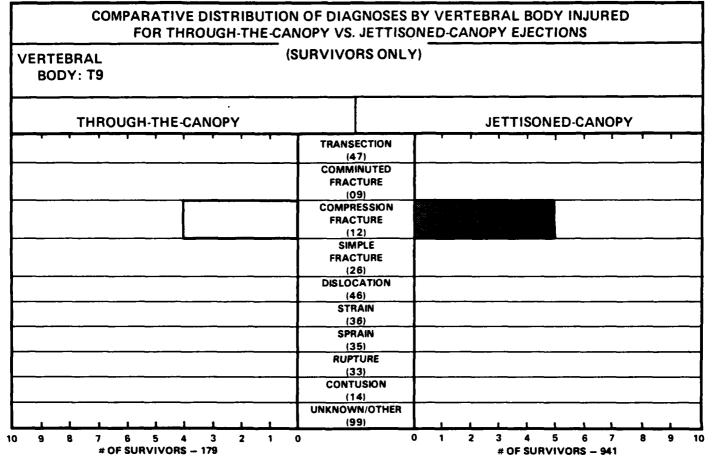


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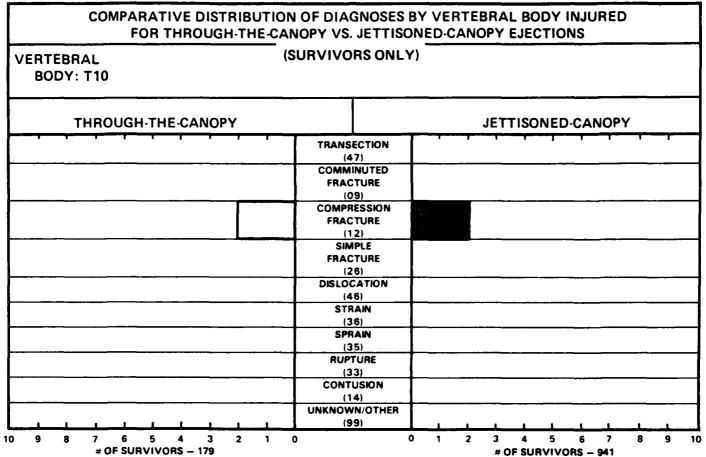


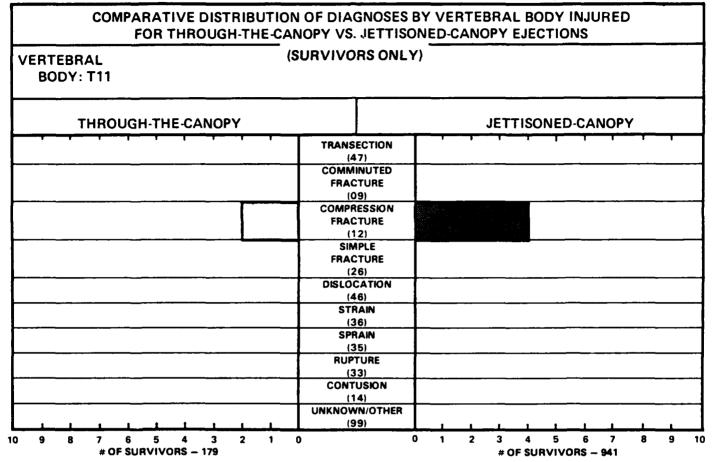
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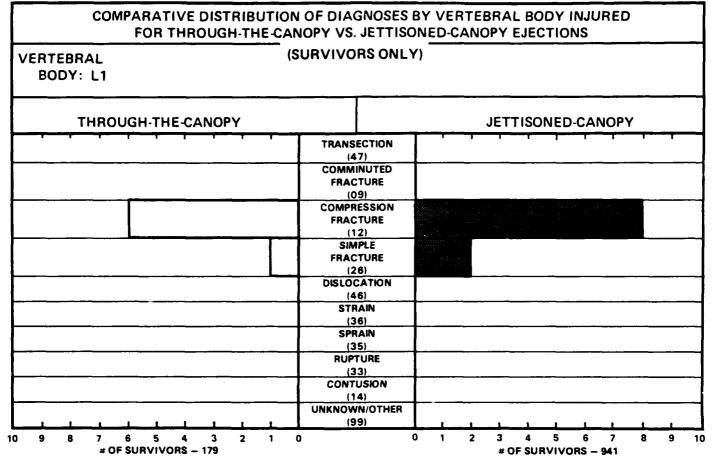


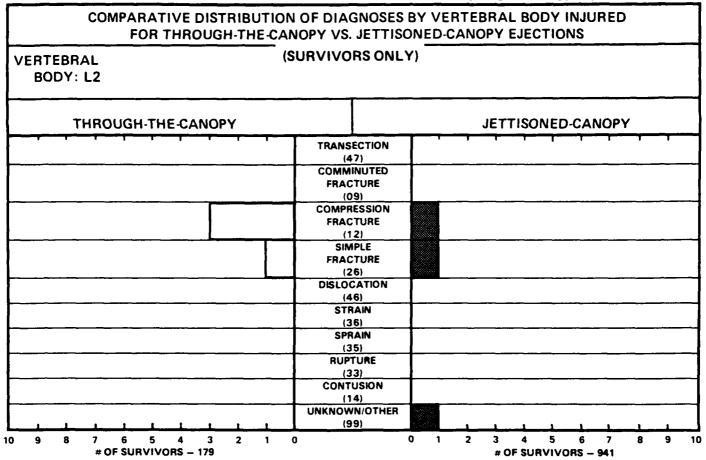
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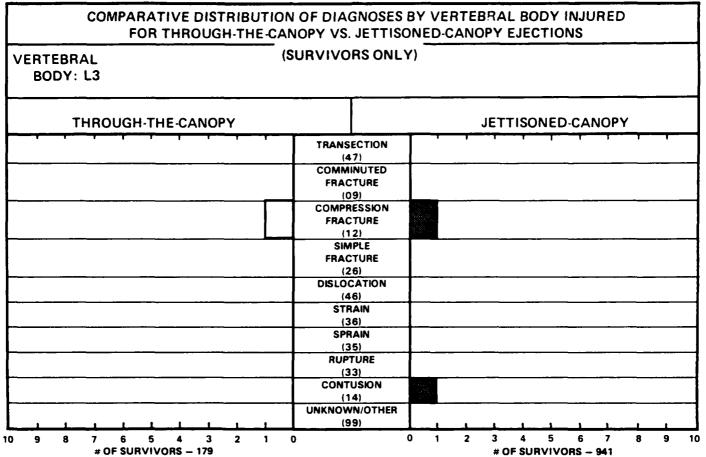




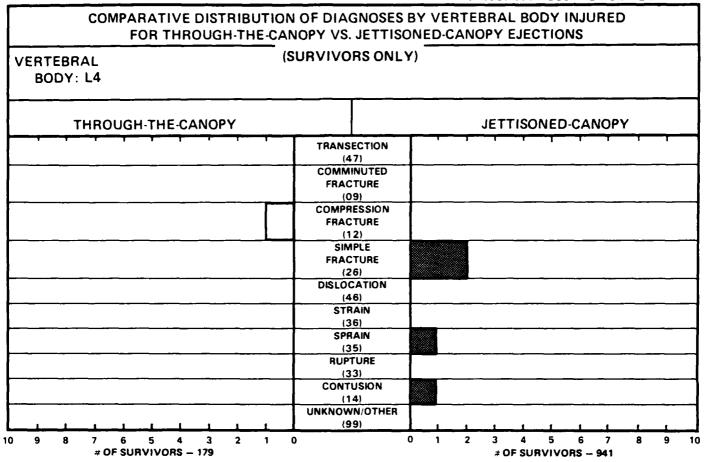
	ANOPY VS. JETTISON			.0.0		-			
ERTEBRAL BODY: T12	(SURVIVORS ONLY)								<u>.</u> .
THROUGH-THE-CANOPY			JETT	ISO	NED	-CAI	NOP	Υ	
	TRANSECTION	γ		-	1	1	1	- 1	1
	(47)								
	COMMINUTED						_		
	FRACTURE								
	(09)	AAAAA AA							
	COMPRESSION								
	FRACTURE								
	· (12) SIMPLE								
	FRACTURE								
	(26)								
	DISLOCATION								
	(46)								
	STRAIN								
	(36)								
	SPRAIN					-			
	(35)								
	RUPTURE								
	(33)								
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1 1 1 1 1 1 1 1	(99)			. 1		1_			







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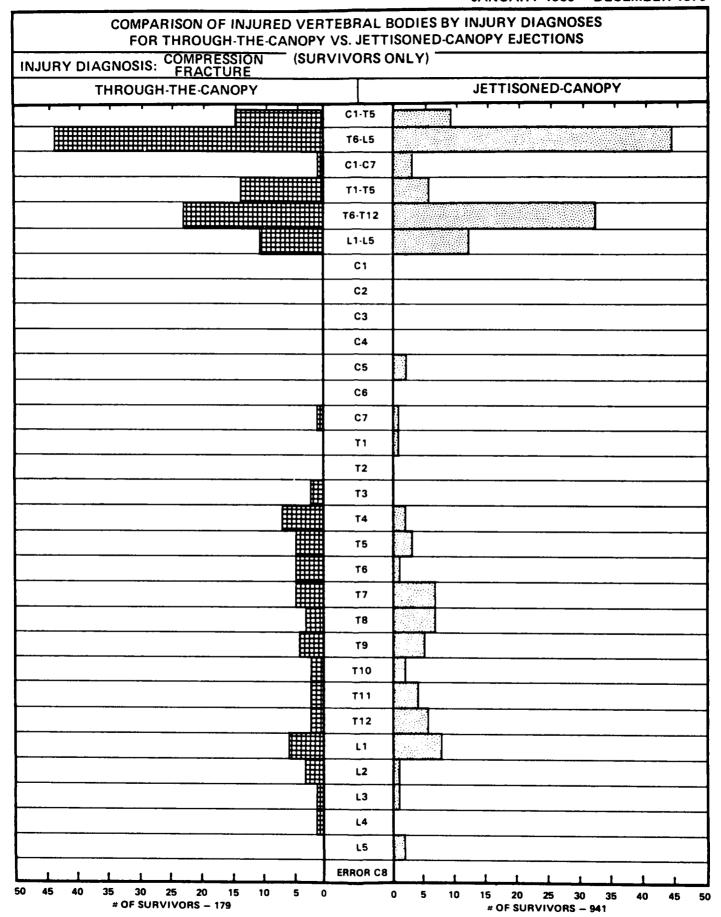


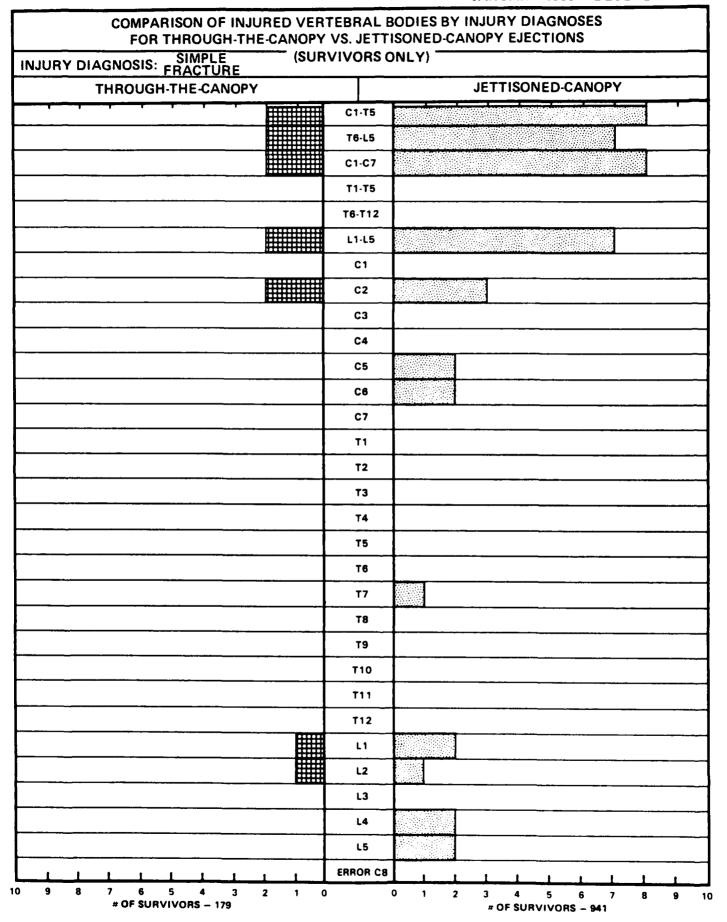
COMPARATIVE DISTRIBUTION FOR THROUGH-THE-C		NED-C) 		
VERTEBRAL BODY: L5	(301141401160112				<u> </u>						
THROUGH-THE-CANOPY			J	JETI	riso	NED	-CAI	NOP	<u> </u>		
	TRANSECTION		7	7	7	-	7	···· 1		T	
	(47)	ļ									
	COMMINUTED	Í									
	FRACTURE (09)										
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9 8 7 6 5 4 3 2 1 # OF SURVIVORS — 179	0	0 1	2	3	4	5 3VIV0	6	7	8	9	

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	C1-T5		-	1 1	-, , , , , , , , , , , , , , , , , , , 	
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	C1-C7					
	T1-T5					
	T6-T12					
	L1-L5					
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URY DIAGNOSIS: COMMINUTED (S	SURVIVORS (ISONED-CANOPY EJECTIONS DNLY)
THROUGH-THE-CANOPY		JETTISONED-CANOPY
	C1-T5	
	T6-L5	
	C1-C7	
	T1-T5	
	T6-T12	
	L1-L5	
	C1	
	C2	
	СЗ	
	C4	
	C5	
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····	Т9	<u> </u>
	T10	
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	L1	
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	L4	
	L5	
	ERROR CE	4





		VIVORS O	ISONED-CANOPY EJECTIONS ONLY)
THROUGH-THE-CANOPY			JETTISONED-CANOPY
111100011112021021		C1-T5	
	-	T6-L5	
		C1-C7	
		T1-T5	
		T6-T12	
		L1-L5	
		C1	
		C2	
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		L4	
		L5	
1 1 1 1 1 1 1		ERROR C8	

JRY DIAGNOSIS: SPRAIN	SURVIVORS	INLY)	
THROUGH-THE-CANOPY		JETTISONED-	CANOPY
	C1-T5	, , , , , , , , , , , , , , , , , , ,	
	T6-L5		
	C1-C7		
	T1-T5		
	T6-T12	· · · · · · · · · · · · · · · · · · ·	
	L1-L5		
	C1		
	C2		
	C3		
	C4		
	C5		
	C6		
	C7		
	71		
	Т2		
	тз		
	T4		
	Т5		
	Т6		
	17		
	Т8		
	Т9		
	T10	-N-M	
	T11		
	T12		
	L1		
	L2		
	L3		
	14		
	L5	isseerid	
	ERROR C8		

AGNOSIS: CONTUSION	SURVIVORS C	NLY)			
THROUGH-THE-CANOPY			JETTIS	ONED-CA	NOPY
	C1-T5	1	1 1	7	
	T6-L5			_	
	C1-C7				
	T1-T5	,			
	T6-T12				
	L1-L5				
	C1	enettispetellederled			
	C2				
	СЗ				
	C4				
	C5			-	
	C6			-	
	C7				
	T1				 .
	T2				
	Т3				
	T4		-, -		
	Т5				·····
	T6	—··-			
	T7				
	T8				
	Т9				
,	T10				
	T11				
	T12				
	L1				
	L2				
	L3				
	L4				
	L5				
	ERROR C8	, ,			

URY DIAGNOSIS: UNKNOWN/OTHER (S	SURVIVORS C	SONED-CANOPY EJECTIONS ONLY)	
THROUGH-THE-CANOPY	·	JETTISONED-CANOPY	
Timodal Tiz Galda .	C1-T5		
	T6-L5		
	C1-C7	******	
	T1-T5		
	T6-T12		
	L1-L5		
	C1		
	C2		
	C3		
	C4		
	C5		
	C6		
	C7		
	T1		
	T2		
	Т3		
	T4		
	T5		
	Т6		
	Т7		
	Т8		
	Т9		
	T10		
	T11		
	T12		
	L1		
	L2		
	L3		
	L4		
	L5		
	ERROR C8		

EJECTION STATISTICS &

ANALYSES

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PERCENTAGE OF NAVY EJECTIONS BELOW 100 FEET BY YEAR 8 R PERCENT

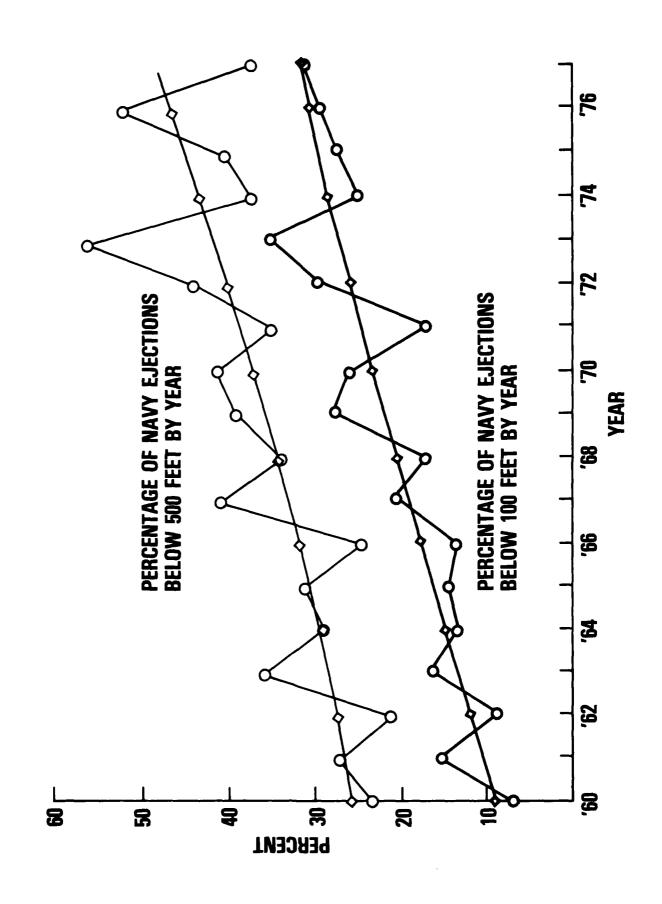
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YEAR

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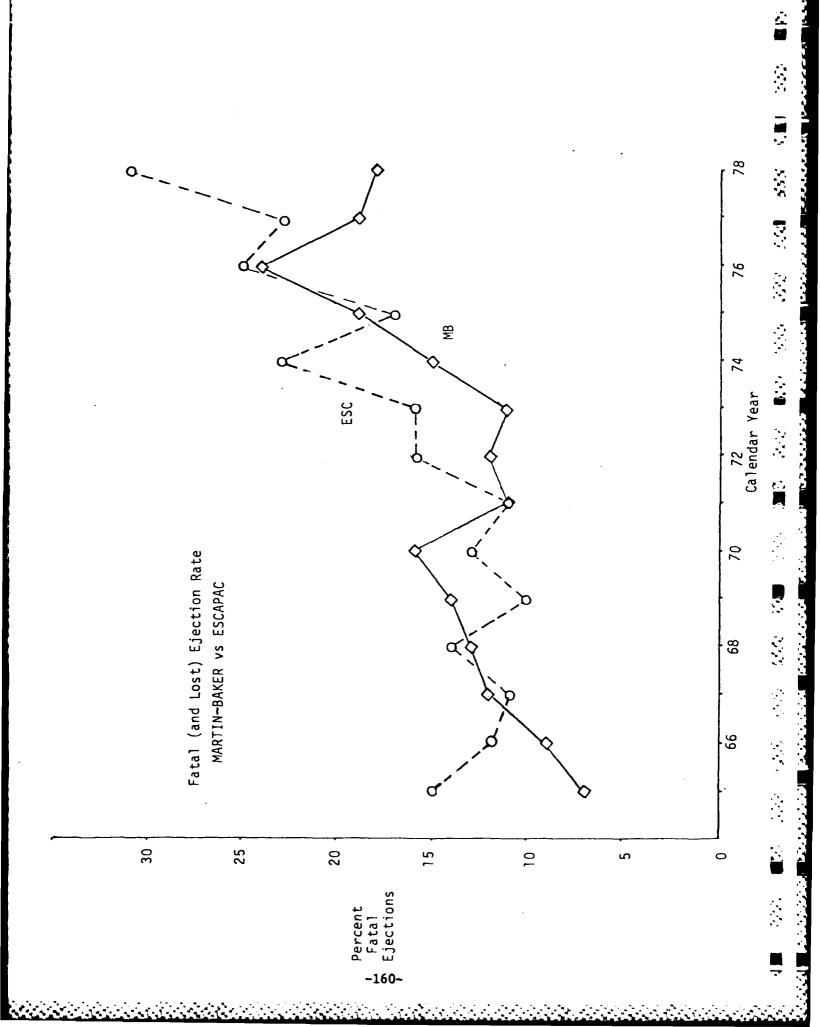


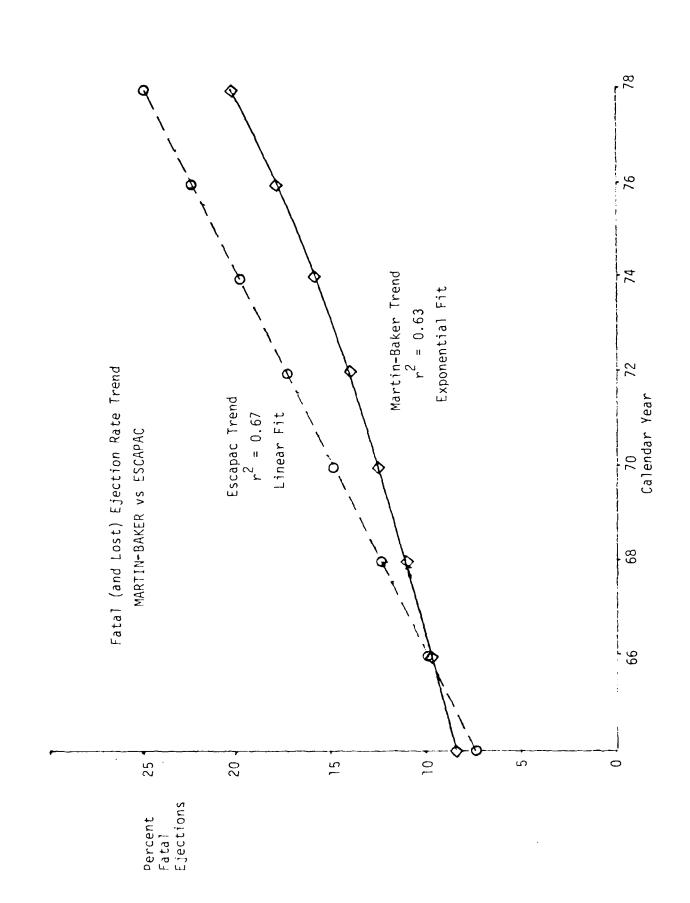
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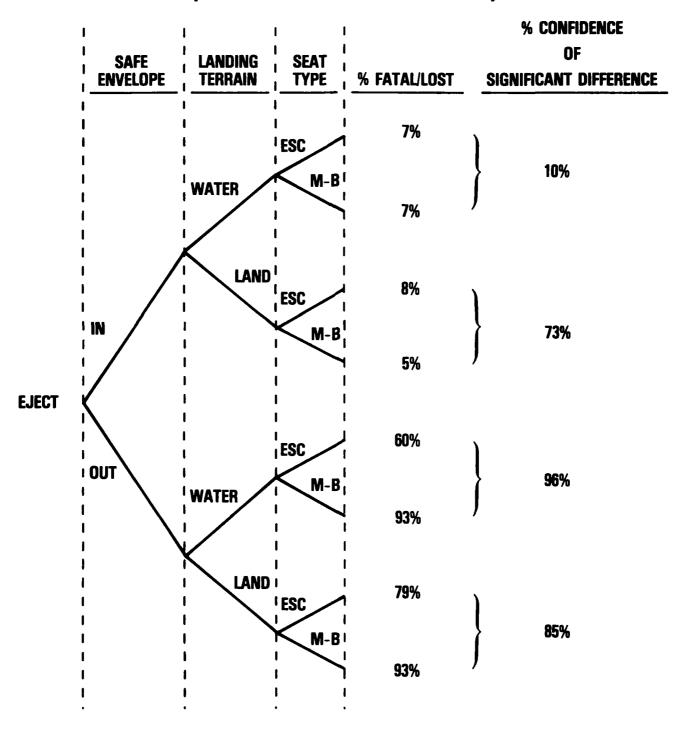
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ESCAPAC vs MARTIN-BAKER FATAL/LOST DIAGRAM (CY1974 THROUGH JUNE 30 1978)

		•		ME FRAME)		
			וו כאע)	HE FRANCI		% CONFIDENCE
	SAFE	LANDING	SEAT !			0F
	ENVELOPE	TERRAIN	TYPE	% FATAL/LOST		SIGNIFICANT DIFFERENCE
1			ESC M-B	23%	}	99%
! !		WATER		9%	j	
,	IN /		ESC	9%		65%
, 		(} !	м-в	5%	}	02%
EJECT (TUO TUO	 	ESC	100%		
		WATER	M-B	88%	}	59%
1	† †	LAND	ESC	100%	}	75%
1	1	1	1	78%	ر	

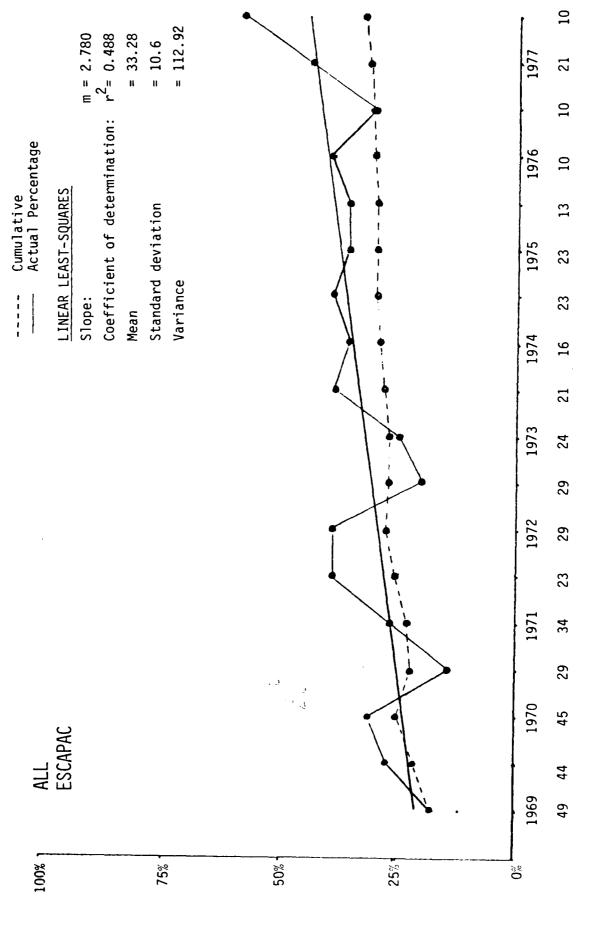
ESCAPAC VS MARTIN-BAKER FATAL/LOST DIAGRAM (CY1969 THROUGH CY1973)

2



TIME SERIES OF THE % OF ATTEMPTS WITH FATAL OR MAJOR INJURIES OR LOST

INTERCOLORS CONTRACTOR SOCIETA BASES OF THE SOCIETA



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ATTEMPTS

TIME SERIES OF THE % OF ATTEMPTS WITH FATAL OR MAJOR INJURIES OR LOST FOR THE MARTIN BAKER SEAT TYPES

37

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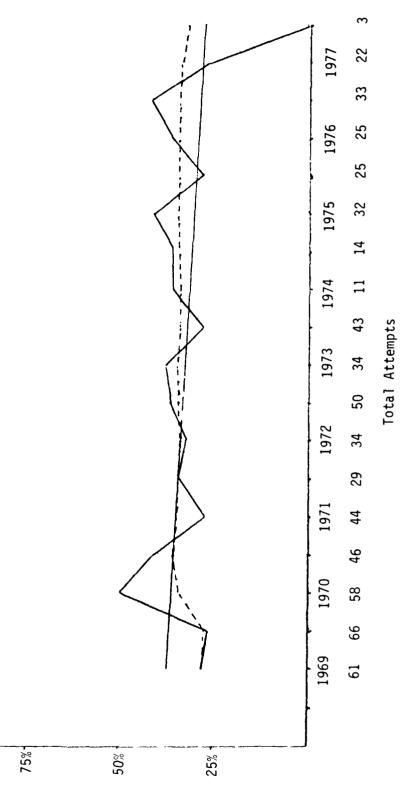
(A) (A) (A)

Cumulative Running Average Actual Percentage

LINEAR LEAST SQUARES

570	. 085	32.55	10.4	102.35
и	Ŋ	П	II	11
E	22			
Slope:	Coefficient of determination r	Mean	Standard deviation	Variance

100%



-165-

CHANGES IN ESCAPAC INJURY RATES OVER THE PAST DECADE

\triangleleft	+ 10%	+ 3%	- 13%	187
1974 - 1978 (INCL.)	23%	17%	209	149
1969 - 1973 (INCL.)	13%	14%	73%	336
INJURY	Fatal/Lost	Major	Minor/Minimal/None	TOTAL # EJECTIONS

% CONFIDENCE OF SIGNIFICANT DIFFERENCE

366

SAMFLE POPULATIONS RATHER THAN RANDOM OCCURENCES DRAWN FROM THE SAME POPULATION), (I.E....AT A CONFIDENCE LEVEL OF 99% THE INJURY CATEGORIES REFLECT TWO DISTINCT

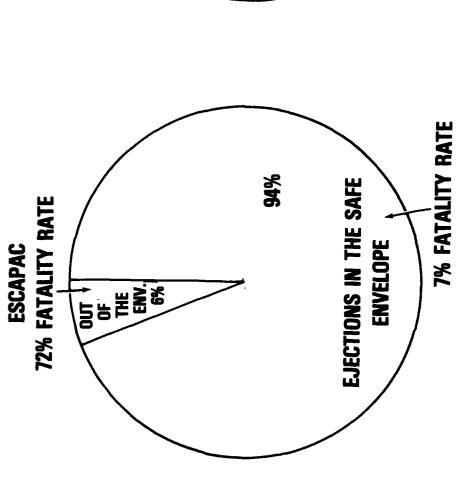
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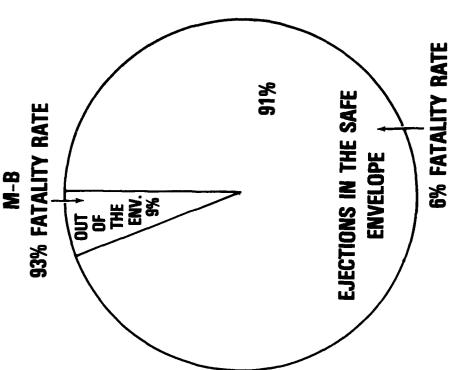
DATA PERIOD: 1/1/69 THRU 12/31/73

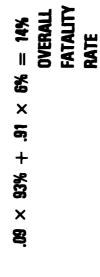
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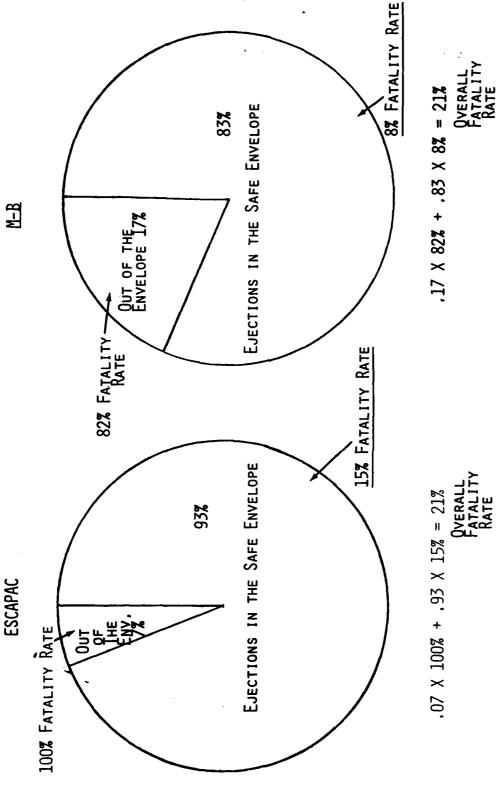


OVERALL Fatality

 $.06 \times 72\% + .94 \times 7\% = 11\%$

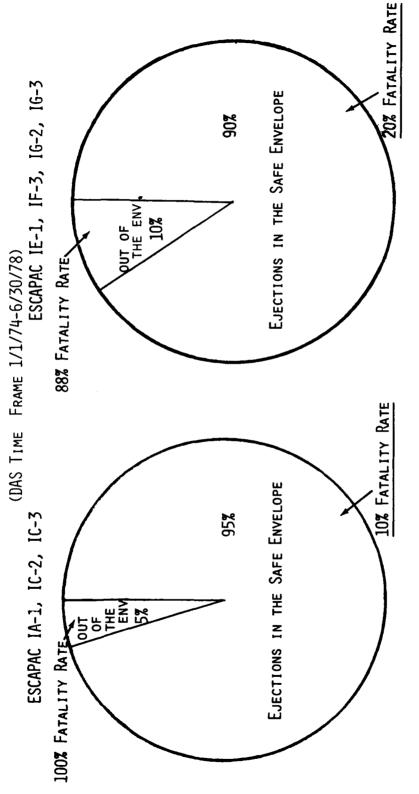
WHY IS THE FATALITY RATE APPROXIMATELY EQUAL BETWEEN . ESCAPAC AND MARTIN-BAKER?

(DAS TIME FRAME 1/1/74-6/30/78)



· ·





Overall Fatality

RATE

OVERALL $10 \times 88\% + .90 \times 20\% = 27\%$

FATALITY RATE KESSESSE RESERVATIONSPROFF RECEKEE PERKEES

COMPARATIVE FATALITY RATES

ESCAPAC IA-1, IC-2, IC-3 vs IE-1, IF-3, IG-2, IG-3

EJECTIONS IN THE SAFE ENVELOPE

FATAL & LOST	10%
Survivors	206
# EJECT	28
	10-2, 10-3

80%
71
IE-1, IF-3, IG-2, IG-3

20%

% CONFIDENCE OF SIGNIFICANT DIFFERENCE

86%

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COMPARATIVE FATALITY RATES

(1/1/74-6/30/78)

ESCAPAC IA-1, IC-2, IC-3, vs IE-1, IF-3, IG-2, IG-3

EJECTIONS OUT OF THE SAFE ENVELOPE

	# EJECT	% Survivors	% FATAL & LOST
IA-1, IC-2, IC-3	2	20	100%
IE-1, IF-3, IG-2, IG-3	∞	12%	88%
% CONFIDENCE OF Significant Difference		%8 7	

% OF EJECTIONS IN vs OUT OF THE ENVELOPE

% OUT OF THE ENVELOPE *	7% 17%	
% IN THE ENVELOPE	93%	%
TOTAL EJECTIONS	140 230	се 99%
SEAT	ESCAPAC Martin-Baker	% Confidence of Significant Difference

373

In Part represents degree of aircrew over-confidence in system,

COMPARATIVE FATALITY RATES	1/1/74 - 6/30/78
IN THE SAFE ENVELOPE	
LAND & WATER	

Š

% FATAL & LOST*	15% 8%	
% SURVIVORS	85% 92%	
EJEC# IONS	130 191	% <u>7</u> 6
SEAT	ESCAPAC Martin-Baker	% CONFIDENCE OF SIGNIFICANT DIFFERENCE

ESCAPAC FATALITY RATE FOR ALL "IN EVELOPE" ESCAPE ATTEMPTS TWICE THAT OF MARTIN-BAKERS

WHILE

EJECTING IN THE SAFE ENVELOPE

WATER ONLY

% SURVIVORS	77% 91 %
% TOTAL & LOST	23% 9%
# EJECTIONS	56 117
SEAT	ESCAPAC Martin-Baker

% Confidence

366

Significant Difference

ESCAPAC FATALITY RATE FOR ALL "IN ENVELOPE - WATER" EJECTION ATTEMPTS GREATER THAN 2X LARGER THAN MBA'S 7

(PAGE 14)

"THE ESCAPAC SEAT IN THE A-7 AIRCRAFT HAS... ONE OF THE BEST RATES (85% PERCENT) IN THE NAVY".

ALL A-7 ESCAPACS

10 (18%) 10 (18%) 57 Fatal Maj, Inj, Total HOWEVER, THIS MASKS SIGNIFICANT EFFECTS RESULTING FROM UPGRADING ESCAPAC IC-2 TO ESCAPAC IG-2:

	ESCAPAC IC-2	ESCAPAC 16-2
FATAL	(%0) 0	10 (31%)
MAJ. INJ.	5 (20%)	5 (16%)
TOTAL	25	32

(DATA 1/1/74 THROUGH 6/30/78)

ESCAPAC FATAL/LOST INJURIES

passing respected because supposed proposed property

Property property contract the property

COMPARATIVE INCIDENCE RATES AMONG ALL ESCAPE ATTEMPTS

IA-1 14 16%	IC-3 IF-3 17 4 13% 20%	1G-3 7 20%
DATES: 69-78 DA	DATES: 69-77 DATES: 72-77	DATES: 74-78
	IC-2	16.2
	19	0
	12%	29%
8	DATES: 69-76	DATES: 75-78

1E-1 7 7 64%

種々 多名 表象

5,50

100 F20 670 570 WI

DATES: 73-78

S-3

ESCAPAC MAJOR INJURIES

100 PM 100

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COMPARATIVE INCIDENCE RATES AMONG ALL ESCAPE ATTEMPTS

1G-3 7 20%	DATES: 74-78	7- <u>9</u>	18%	DATES: 75-78
IF-3 4 20%	DATES: 72-77			
1C-3 21 16%	DATES: 69-77	7.7	14%	DATES: 69-76
IA-1 12 13%	DATES: 69-78			
A.A.		A-7		

S-3

DATES: 73-78

8

<u>F</u>1

AMONG SURVIVORS & NON-LOST/IMPACT MULTIPLE ESCAPAC MAJOR INJURIES COMPARATIVE INCIDENCE RATES EXTREME FATALITIES

12 15% DATES: 69-78
12 21 15% 19% DATES: 69-77 IC-2 22 15% DATES: 69-76

74-78

1G-2 6 21% DATES: 75-78 1E-1

DATES: 73-78

S-3

ESCAPAC FATAL/LOST & MAJOR INJURIES

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COMPARATIVE INCIDENCE RATES AMONG ALL ESCAPE ATTEMPTS

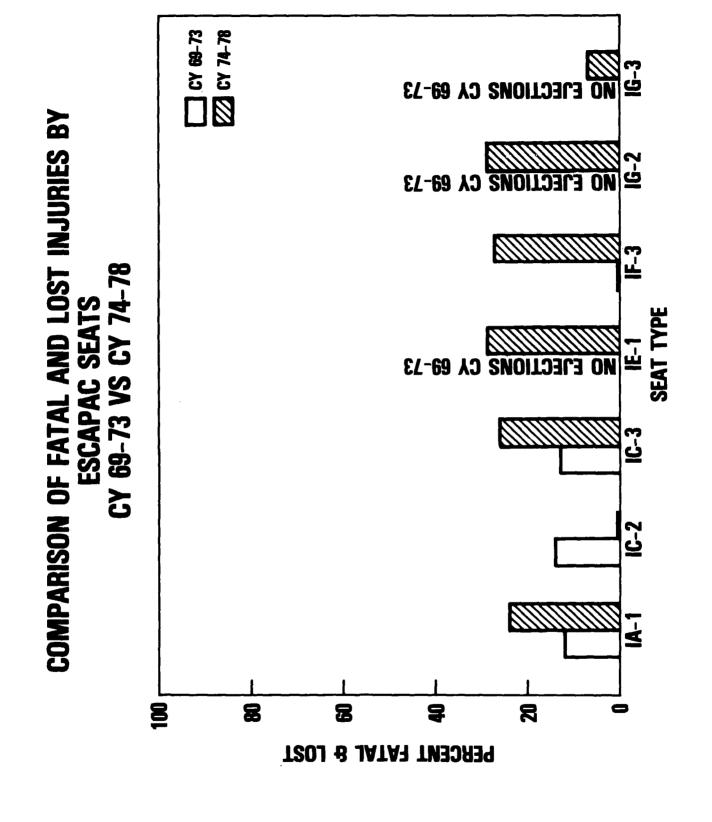
		_				-
16-3	14	DATES: 74-78	16-2	92	47%	DATES: 75-78
IF.3	8 40%	DATES: 72-77				
IC-3	38	DATES: 69-77	IC-2	41	76%	DATES: 69-76
IA-1	26 29%	DATES: 69-78				
	A-A			•	4	
			17	0		

<u>6-3</u>	14	40%	DATES: 74-78	16-2	9	47%	
							_

E-1	7	64%

DATES: 73-78

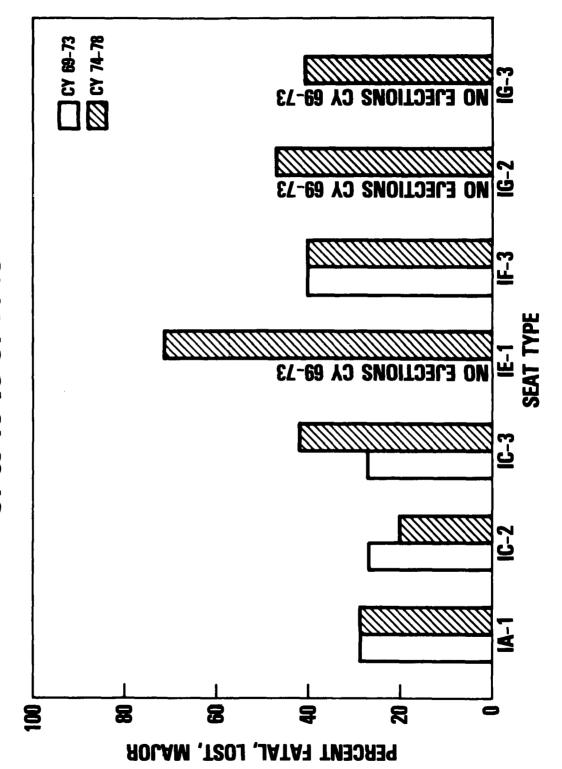
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COMPARISON OF FATAL, LOST, MAJOR INJURIES BY ESCAPAC SEAT TYPE CY 69-73 VS CY 74-78

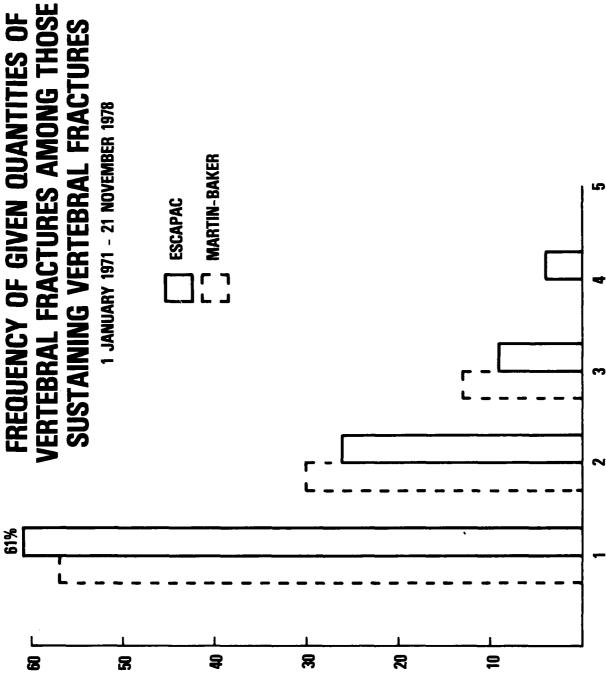
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ESCAPAC MARTIN-BAKER 1 JANUARY 1971 - 21 NOVEMBER 1978 MARTIN-BAKER & ESCAPAC SERIES EJECTION SEATS **VERTEBRAL FRACTURE DISTRIBUTION AMONG** UMBAR 9 10 11 12 **USN EJECTEES THORACIC** 567 CERVICAL 1 2

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PERCENT OF EJECTEES SUSTAINING VERTEBRAL FRACTURES WHO SUSTAINED GIVEN QUANTITY OF VERTEBRAL FRACTURES

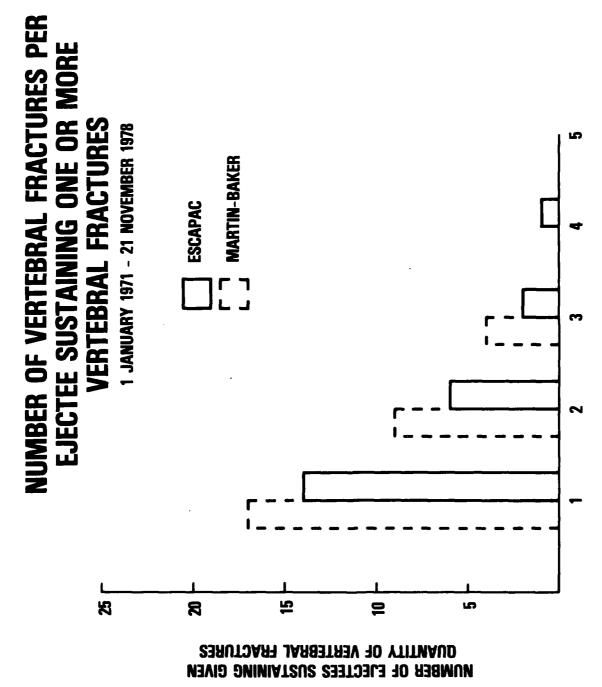


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NUMBER OF FRACTURED VERTEBRAE

); }}

NUMBER OF VERTEBRAL FRACTURES PER TOTAL EJECTEES FOR FAMILY OF SEATS) (EJECTEES EXPRESSED AS PERCENT OF **EJECTEE SUSTAINING ONE OR MORE VERTEBRAL FRACTURES** 1 JANUARY 1971 - 21 NOVEMBER 1978 MARTIN-BAKER ESCAPAC **QUANTITY OF VERTEBRAL FRACTURES**

NUMBER OF FRACTURED VERTEBRAE

8.5

355 ESS 555 ESS

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10.5

PERCENT EJECTEES SUSTAINING GIVEN

MOR (MARTIN-BAKER) INJURY DATA 1 JANUARY 1969 THRU 31 DECEMBER 1978

NUMBER OF INJURIES BY AIRCRAFT

INJURY TYPE	A-6	F-4	F-8	F-9	F-14	T-1	A-6 F-4 F-8 F-9 F-14 T-1 AV-8A	TOTALS
MINOR/								
MINIMAL/NONE	8	264	91	5	\$	7	4	497
MAJOR	34	35	7	14	7	2	ന	102
FATAL	16	36	ဖ	4	9	2	_	75
LOST	11	25	4	-	-	0	0	42
TOTALS	142	360	108	34	28	9	&	716

727

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MOR (MARTIN-BAKER) INJURY DATA 1 JANUARY 1969 THRU 31 DECEMBER 1973 NUMBER OF INJURIES BY AIRCRAFT MODEL

INJURY TYPE	A-6	F-4	F-8	F-9	A-6 F-4 F-8 F-9 F-14 T-1	T-1	AV-8A	TOTALS
MIN/NONE	47	188	9/	15	7	2	0	330
MAJOR	19	28	9	14	0	2	-	20
FATAL	12	21	9	4	0	2	0	45
LOST	က	14	4	~-	0	0	0	Z
TOTALS	81	251	92	34	2	6	-	467

MOR (MARTIN-BAKER) INJURY DATA 1 JANUARY 1974 THRU 30 JUNE 1978 NUMBER OF INJURIES BY AIRCRAFT MODEL

INJURY TYPE	A-6	F-4	F-8	F-9	F-14	T-1	AV-8A	A-6 F-4 F-8 F-9 F-14 T-1 AV-8A TOTALS
MINIMAL/MINOR/NONE	28	72	15	0	32	0	ħ	151
MAJOR	15	7		0	7	0	7	32
FATAL	က	15	0	0	5	0	-	29
LOST	9	11	0	0	-	0	0	18
TOTALS	52	105	16	0	50	0	7	230

MARTIN-BAKER EJECTIONS BY SEAT TYPE NUMBER AND PERCENT OF INJURIES BY INJURY **CLASSIFICATION**

I JANUARY 1969 THRU 31 DECEMBER 1978

%	3	-	2	13	13	ro.	~	7	7	48	-	0.8	0.9	
TOTALS	19	∞	11	91	06	35	99	19	13	347	c	9	7	716
%	6.0	9.0	2	19	ស	က	œ	2	-	55	9.0	0.3	2	
MINIMAL	3	2	7	63	18	10	72	S	4	179	2	-	ഹ	326
%	2	-	က	6	19	9	9	4	က	4	-	-	-	
MINOR	က	-	ഹ	16	32	=	=	7	വ	92	2	_	-	171
%	8	ro	-	9	22	7	7	4	m	31	က	2	-	
MAJOR	8	.c.	-	9	23	7	7	4	က	32	က	2	-	102
%	2	6	ഹ	LS.	2	2	7	7	2	22	•	6	0	
LOST	1	0	2	2	4	4	-	က		24	0	0	0	42
%	S	•	က	S	17	4	13	0	0	48	_	က	0	
FATAL	4	0	2	4	13	က	10	0	0	36	_	2	0	75
SEAT TYPES	A 5	A 7	FS	٤7	GRU 5	GRU 7	GRU 7A	GRUEA 7	НS	Н7	TYPE-9	1.5	5 2	TOTALS

MARTIN-BAKER EJECTIONS BY INJURY CLASSIFICATION AND SEAT TYPE

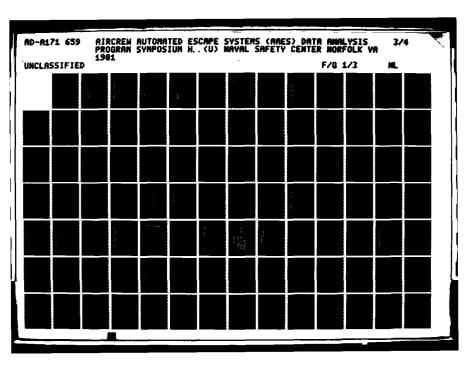
1 JANUARY 1969 THRU 31 DECEMBER 1973

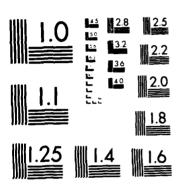
(INJURY BY SEAT TYPE)

INJURY TYPE	A5 A7	A 7	F 5	F 7	GRU 5	GRU 7	GRU 7 GRU 7A	Н 5	H 7	TYPE-9	1.5	5 Z	TOTALS
MINIMAL/NONE	3	2	7	48	16	2	-	4	117	0	1	5	206
MINOR	က	-		16	29	0		D.	62	0	-	-	124
MAJOR	œ	r.	_	S	8	_	0	က	25	-	2	-	70
FATAL	4	0	2	4	10	2	0	0	21	0	2	0	45
LOST	-	0	2	2	m	0	0	(-	13	0	0	0	22
TOTALS	19	8	17	75	76	5	2	13	238	1	9	7	467

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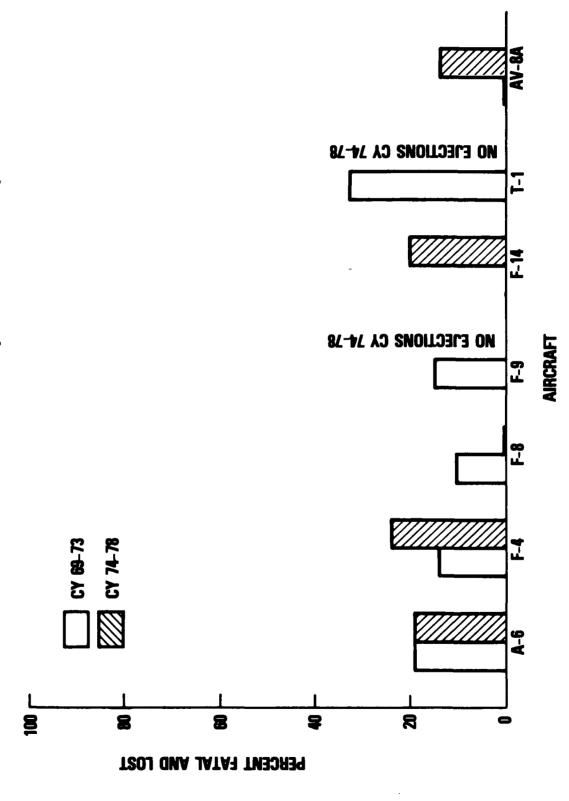
MARTIN-BAKER NUMBER OF INJURIES BY SEAT TYPE AND INJURY CLASSIFICATION

1 JANUARY 1974 THRU 30 JUNE 1978

INJURY TYPE	F 7	GRU 5	GRU 7	GRUEA 7	GRU 7A	Н 7	TYPE-9	TOTALS
MINIMAL/NONE	15	2	9	g	22	58	2	109
MINOR	0	ო	10	က	10	14	2	42
MAJOR	~~	ភ	9	4	7	7	2	32
FATAL	0	က	0	0	£	15	-	29
LOST	0	-	4		-	=	0	18
TOTALS	16	14	25	13	50	105	7	230

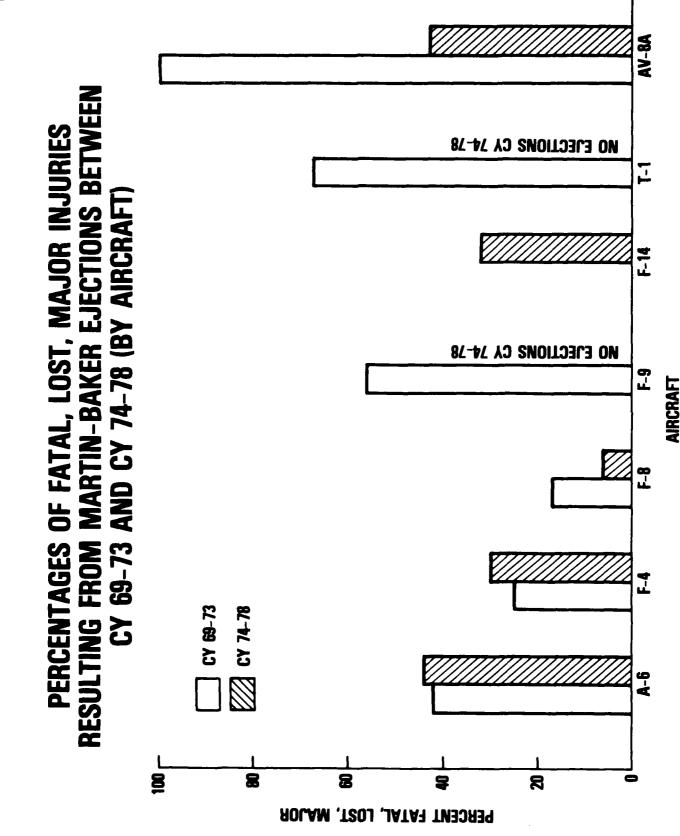
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PERCENTAGES OF FATAL AND LOST INJURIES RESULTING FROM MARTIN-BAKER EJECTIONS BETWEEN CY 69-73 AND CY 74-78 (BY AIRCRAFT)



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INCIDENCE OF VERTEBRAL FRACTURES AMONG MARTIN-BAKER & ESCAPAC EJECTEES **COMPARISON OF VERTEBRAL FRACTURES**

	TOTAL EJECTEES	EJECTEES W/ VERTEBRAL FRACTURES	VERTEBRAL FRACTURE RATE
ESCAPAC	305	23	%8
MARTIN-BAKER	471	30	%9

PERIOD: 1 JANUARY 1971 - 21 NOVEMBER 1978

USN ESCAPAC SEAT DATA BY AIRCRAFT TYPE

民主

1 JANUARY 1974 THRU 30 JUNE 1978

NUMBER INJURIES BY AIRCRAFT MODEL

S-3 TOTALS	2 88	0 22	3 22	8 0	740
		_			
A-7	37	10	7	က	57
A-4	49	12	12	2	78
INJURY TYPE	MIN/NONE	MAJOR	FATAL	LOST	TOTALS

ESCAPAC SEAT INJURY CLASSIFICATION BREAKOUT BY SEAT TYPE

1 JANUARY 1974 THRU 30 JUNE 1978

1001	PRE	PRE SEAT-MAN ROCKET	IAN	SEA	SEAT-MAN SEPARATOR ROCKET	EPARA KET	гов
INJURY	IA-1	10-3	IC-2	IE-1	IF-3	16-2	1G-3
MAJOR	1	3	5	0	2	2	9
FATAL	4	3	0	ဗ	3	7	2
LOST	0	2	0	0	l	3	2
MIN/NONE	12	11	20	2	6	17	17
TOTALS	17	19	25	2	15	32	27

SUMMARY:

TVPF	NUMBER (NUMBER OF INJURIES	NUMBER O	NUMBER OF INJURIES
INJURY	IA-1, I	IA-1, IC-3, IC-2	IE-1, IF-3,	IE-1, IF-3, IG-2, IG-3
MAJOR	6	(15%)	13	(16%)
FATAL	7	(11%)	15	(16%)
LOST	2	(3%)	9	(%L)
MIN/NONE	43	(71%)	45	(28%)
TOTALS	61		62	
F+L		15%		27%
F+L+M		30%		43 %

ESCAPAC MAJOR INJURIES

3

COMPARATIVE INCIDENCE RATES AMONG ALL ESCAPE ATTEMPTS

	IA-1	C :3	IF.3	16-3
	12	21	4	7
,	13%	16%	20%	20%
	DATES: 69-78	DATES: 69-77	DATES: 72-77	DATES: 74-78
		IC-2		16-2
A-7		Z		မှ
		14%		18%
		DATES: 69-76		DATES: 75-78

F-1

S-3

DATES: 73-78

AMONG SURVIVORS & NON-LOST/IMPACT MUI **ESCAPAC MAJOR INJURIES COMPARATIVE INCIDENCE RATES EXTREME FATALITIES**

n-п	
DATES:	
ATES: 64-77	IC-2
DATES: 69-78	
	1-7
	DATES: 69-78 DATES: 64-77 DATES: 72-77

IC-3	IF-3	IG-3
19% DATES: 64-77	Z1% DATES: 72-77	Z3% DATES: 74-78
IC-2		16-2
22		9
15%		21%
DATES: 69-76		DATES: 75-79

<u>~</u>	-%

S-3

DATES: 73-78

ESCAPAC FATAL/LOST INJURIES

223

12.50

6.77

1

25.53

COMPARATIVE INCIDENCE RATES AMONG ALL ESCAPE ATTEMPTS

			;	
	IA-1	IC-3	IF.3	16-3
**	14	17	4	7
{ .	16%	13%	20%	20%
	DATES: 69-78	DATES: 69-77	DATES: 72-77	DATES: 74-78
		IC-2		16-2
A-7		6		2
		12%		29%
		DATES: 69-76		DATES: 75-78

DATES: 73-78

64%

S-3

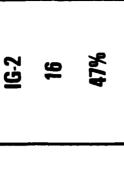
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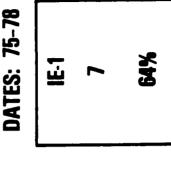
ESCAPAC FATAL/LOST & MAJOR INJURIES

COMPARATIVE INCIDENCE RATES AMONG ALL ESCAPE ATTEMPTS

16-2		IC-2		
DATES: 7	DATES: 72-77	DATES: 69-77	DATES: 69-78	
40%	40%	79%	78%	,
14	∞	8	5 6	8.0
16-3	F-3	IC-3	IA-1	

DATES: 74-78	7-91	16	47%





DATES: 69-76

26%

DATES: 73-78

(). (<u>)</u>

S-3

A-7

SYNOPSIS A-7 FATALITIESa)

<u>1974 - 1978</u>

	CATEGORY	NUMBER
0	Fireball involvement	1,
0	Seat failed, ejection in envelope	10)
0	Ejection out of envelope	2 ^c)
0	Good parachute, did not survive in water	6 ^{d)}

NOTES

- (a) All ejections were with ESCAPAC IG-2
- (b) Pilot impacted water in seat although apex of trajectory estimated to be 150'. Subsequent investigation of recovered seat revealed man-seat separation not initiated due to failure of cartridge on MK 16 Mod 0 rocket catapult.
- (c) One pilot struck ground at approximately full riser stretch. Pilot had previously stated intent to attempt save and aircraft, did not want aircraft loss on record. Other pilot impacted ground approximately 10 feet from seat and 50 yards from aircraft impact crater.
- (d) Among those entering water:
 - (1) Ejection following night ramp strike. Full parachute seen and ejectee then struggling in water. Suffered contusions on face and abrasions on neck (latter from suspension lines). Drowned.
 - (2) Eiection following night ramp strike. Full parachute seen, ejectee not seen even by swimmer at parachute. Lost.
 - (3) Parachute observed by wingman streaming as man (seat) entered undercast. Helmet recovered bearing evidence of high speed escape and severe blow to back of helment/head from Koch fittings. Lost.
 - (4) Wingman observed fully deployed parachute for period of l minute 50 seconds before water contact. Did not report seeing ejectee. Lost.

A-7 FATALITIES

1974 - 1978

EJECTION DESCRIPTION	Fireball destroyed parachute and shroud lines.	Night ejection from carrier deck. Seen struggling in water. LPA initiated. Full	Night ejection from carrier deck, full parachute seen. Ejectee lost. Flew with seat full upmay have affected breaker	Helmet struck by Koch fittings - helmet shell fractured. Wingman reported seeing streaming parachute prior to seat-man entering clouds.	Cold cat shot, subsequent ejection. Ejection trajectory reached 150'. No man-seat separation. Seat in a high position.
INJURY DESCRIPTION	Multiple extreme, impact with ground.	Pulmonary edema - drowning. Contusions on face - canopy. Abrasions on neck - suspension lines. Entanglement caused drowning.	Lost	Lost. Investigation of damage to recovered helmet suggested high speed escape and severe blow to helmet/head from Koch fittings.	Recovered seat revealed cartridge of MK 16 ROCKET failed.
SEAT TYPE	ESCAPAC 1G-2	ESCAPAC 1G-2 P	ESCAPAC 16-2 TC	ESCAPAC 1G-2 to to to to to to	ESCAPAC 1G-2
ATTITUDE	UNK	Sliding down deck, R wing low	Slight nose 5° down, L wing down 20-30° sliding off carrier deck	70° nose down uncontrolled flight	√ flat
SPEED	UNK	09	&	UNK	120
ALTITUDE	200' (duration of beeper signal)	65'	75'	2,500-4,500	below 65
A/C	A-7E	A-7E	A-7A	A-78	A-7A

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A-7 FATAL ITTES

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1974 - 1978

EJECTION DESCRIPTION	Wingman saw parachute fully deployed above clouds at 1500- 2000'. Did not observe ejectee. Visual observation of parachute for 1 min. 50 secs. before water contact.	Full parachute observed. Pilot was weak when approached by swimmer 1 min. 37 secs. after ejection; made little effort to help himself.	Pilot struck ground just prior to full riser stretch. Unauthorized maneuver, departed controlled flight.	Full parachute observed after tumbling, gave thumbs up signal. Inflated LPA, R not inflated. Passed within 10' of hull, then into wake.	Body recovered 20' from seat, hip recovered later 10' from body. Body was approximately 50 yds. from A/C impact crater.
INJURY DESCRIPTION	Lost	Drowning. Temporal bone hemorrhage, bilateral contusions R & L superior and anterior shoulders, R & L lateral and anterior upper arms and both groins.	Multiple extreme impact on ground. Had previously indicated intent to not lose aircraft.	Drowning. Multiple contusions upper paravertebral area. Contusion in R periorbital region of face. Subgaleal hemorrhage in R parietal area. Surgeon stated if not injured in ejection, would have	Multiple extreme impact with ground.
SEAT TYPE	ESCAPAC 1G-2 TC	ESCAPAC 16-2 TC	ESCAPAC 1G-2 TC	ESCAPAC 1G-2 TC	ESCAPAC 1G-2 TC
ATTITUDE	UNK	20-30° R wing down, nose level or slightly elevated	90° nose dumn	Wings level descending slightly nose up. Cold cat shot.	
SPEED	400 (est)	135-175	250-350	120	200
ALTITUDE	UNK	300-400'	6200-7200 MSL 1000-2000 AGL	10	1100
A/C	A-7E	A-7E	A-7E	A-7E	A-7E

SYNOPSIS A-4 FATALITIES

1974 - 1978

	CATEGORY	NUMBER
•	Ejection during aircraft breakups	1 ^a)
•	Fireball involvement	1 ^b)
•	Drowning/Lost ^{c)} Seat failed after ejection	3 ^d) 2 ^e)
•	Attempted ejection in envelope	6 ^{f)}
	- Canopy jettisioned, seat stayed	4 ^{f)}
	- Canopy did not jettison	2 ⁹)
•	Attempted ejection outside envelope	4 ^{h)}
	- Canopy jettisoned, seat stayed	1,
	- Seat ejected	3 ^{h)}

NOTES

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(a)	ESCAPAC IC-3	Good parachute seen, no sign of life, ejectee 'OST
		so no determination of injury cause.

- (b) ESCAPAC IA-1 Shorter trajectory and timing of new seats might have prevented entry into fireball.
- (c) One recorded as lost -- insufficient data for placement into any other category, although good parachute was seen (See (d)).
- (d) ESCAPAC IG-3 Wingman saw two good parachutes (ejected from 2-seat TA-4F) no commentary on whether signs of life was present. Ejection was over water, ejectee LOST.
 - ESCAPAC IF-3 Ejectee drowned. However ejectee suffered fracture dislocation at C-5/C-6. Such injury capable of immobilizing individual and, with one exception, has proven fatal to ejectees descending onto land.
- (e) ESCAPAC IF-3 Parachute did not deploy. Evidence suggests emergency release handle had released end of parachute pack actuator arming cable.

ESCAPAC IF-3	Parachute entangled with contents of survival kit which opened during or following man-seat separation.
ESCAPAC IC-3(2)	Four cases in A-4F, 1 A-4L, and TA-4J,
ESCAPAC IG-3(1)	Attempts, as evidenced by canopy jettisoning, were
ESCAPACIAA1(1)	well within seat envelope. Known that their air-
	crew attempted to eject, not known concerning fourth
	(student in TA-4J).
NOT SPECIFIED	Two cases in TA-4J. One cause not determined (air-
ESCAPAC IG-3	craft lost). Other due to misinstallation/misrig-
	ging MK 73 initiator in canopy jettisioning system.
	Both attempts apparently made within seat envelope.
ESCAPAC IA-1	Ejectee impacted water just at or immediately prior
	to full riser stretch. Shorter trajectory and timing
	of new seats might have slowed ejectee sufficiently
	for his survival
	ESCAPAC IC-3(2) ESCAPAC IG-3(1) ESCAPACIAA1(1) NOT SPECIFIED ESCAPAC IG-3

A-4 FATALITIES

1974 - 1978

	akup ife	t at ground	act nte-	ġ.	
EJECTION DESCRIPTION	Ejection during aircraft breakup observed under chute no life observed.	Unsuccessful ejection attempt at 270:50 followed by aircraft ground impact.	Internal injuries due to impact with ground - parachute disinte- grated in crash fireball.	No parachute, impacted ground.	Seat worked normally.
INJURY DESCRIPTION	Lost	Multiple extreme. (recovered tissue samples)	Posterior ribs (R 3 & 5, L 4-10) fractured. Transverse fracture L8 & T5. Compression fracture L2. Fracture/dislocation pelvis. Skin burns 3rd, 4th & 5th degree & 2nd various areas. Laceration of R & L atria & R ventricle of heart. Posterior lacerations of R lung. Homothorax of L lung. Laceration & hemothericardium. Diaphragm lacerations.	Fracture right rib cage. Interstitial hemorrhage right lung. Intraventricular hemmorhage cerebral ventricles. Peri-vertebral hemorrhage. Fracture left humerus. Fracture right scapula. Fracture crisoid cartilage & 1st tracheal ring.	No injury.
SEAT TYPE	ESCAPAC 1C-3	ESCAPAC 1G-3	ESCAPAC IA-1	ESCAPAC 1F-3	
ATTITUDE	90° Dive	80° dive	10° nose down wings level	30 KTS Level harness release handle had been partially pulled releasing parachute actuation drming cable. This ejectee used fate curtain.)	
SPEED	+500 KIAS	.9092 Mach 500+ KIAS	140-145	30 KTS handle had beer ute actuation a c curtain.)	
ALTITUDE	000.89	270±50	95 Parachute opening at 135	0 (harness release handle had beer partial) releasing parachute actuation drming cat ejectee used face curtain.)	
A/C	A-4	TA-4J	A-4C	TA-43	

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A-4 FATAL ITIES

1974 - 1978

	ALTITUDE	SPEED	ATTITUDE	SEAT TYPE	INJURY DESCRIPTION	EJECTION DESCRIPTION
	200	150-200	Sharply nose down. L wing down spiraling.	ESCAPAC IA-1	Multiple massive injuries due to high velocity impact with surface.	<pre>Impact before full line stretch t>2 sec</pre>
	3,000				Lost	Pilot transmitted. He could not eject canopy did not jettison.
	10,000	UNK		ESCAPAC 1F-3	Fracture of skull, basilor fracture, occipital rim fracture, temporal & parietal subluxation C.4, spinous processes fracture C1, C2, C3, C4. Fracture multiple ribs. Fracture of ischum & pubic ramus. Comminuted fracture L	impact with surface. Parachute entangled in life raft lanyard deployed due to survival kit failure.
TA-4F	(dragged by chute	180 (a	10° nose up	ESCAPAC 1C-3	Pulminory congestion R & L lungs. Hemorrhage R & L middle ears. Small contusion middle forehead, small contusion bridge of nose (believed not to have caused unconsciousness)	
	(dragged by chute)	(a)			Small laceration of upper 11p.	Oue to survival kit strap unable to open it. Began to drag him under. Ejected by sequence while bent over.
TA-4J	UNK	UNK	SA K	ESCAPAC IC-3	lost	Evidence of ejectee being in seat at water impact.

A-4 FATAL ITIES

1974 - 1978

Z	al owed by ted water	Instruction Student ttempt.	•	py did not fire	s & URT-33 e of		. after seat-	
EJECTION DESCRIPTION	Canopy jettisoned - several attempts at ejection followed by attempted bailout. Impacted water in aircraft	~		Attempted ejection - canopy did not jettison. Mk 73 did not fire on canopy remover.	Parachute suspension lines & URT-33 lanyard tangled – evidence of tumbling.		Pilot impacted water just after seatman separation.	
EJECT	Canopy jetti attempts at attempted ba in aircraft	Canopy jettisoned. used face curtain. apparently made no		Attempted ejection not jettison. MK on canopy remover.	Parachute s lanyard tan tumbling.		Pilot impacted man separation.	
INJURY DESCRIPTION		Multiple extreme a/c impact w/ground.	Multiple extreme a/c impact w/ground.	a/c impact w/water. Drowning (managed to release 2 upper Kochs & lower R mini-Koch)	Mild paravertebral & pectoral muscle strain.	Drowned. Fracture - dislocation C5-C6.	Multiple extreme impact w/water.	
SEAT TYPE	ESCAPAC 16-3	ESCAPAC IC-3		ESCAPAC 1G-3	ESCAPAC IF-3		ESCAPAC 1A-1	
ATTITUDE	Level				Wings level		60° nose down 130-150° R wing down	
SPEED	250	180			250 es seen		125	
ALTITUDE	5000	000♦			1500 250 2 good parachutes seen		500	
A/C	A-4F	TA-4J		TA-4J	TA-4J		A-4E	

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A-4 FATALITIES

A/C	ALTITUDE	SPEED	ATTITUDE	SEAT TYPE	INJURY DESCRIPTION	EJECTION DESCRIPTION
TA-4.)	UNK	UNK	70-90° nose down	ESCAPAC IG-3	Lost	
A-4L	1000-1800 AGL			ESCAPAC 1A-1	Multiple extreme impact w/ground in aircraft following ejection seat failure to fire.	Pilot pulled both controls, canopy jettisoned, but seat did not eject. Primer of rocket catapult did not fire after firing pin struck.
•						•
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SYNOPSIS S-3 FATALITIESa)

1974 - 1978

	CATEGORY	NUMBER
0	Ejection seat failed	1 ^b)
0	Ejection initiated outside envelope	2 ^c)

NOTES

- (a) All S-3A ejections used ESCAPAC IE-1.
- (b) TACO seat-man separation cartridge did not ignite (primer fired). In addition empty SENSO seat propulsion inflicted various 3rd degree burns on TACO. (Pilot and co-pilot ejected successfully).
- (c) Empty TACO and SENSO seats cleared aircraft approximately 25', lefthand seat completed ejection sequence although ejectee was killed while egressing from aircraft as it disintegrated upon ground impact, right-hand seat upward travel was stopped by aircraft disintegration at ground impact.

S-3 FATALITIES

EJECTION DESCRIPTION	R seat stopped by R wing down crash. L seat ejected, ejectee killed in crash, full parachute obtained.	No man-seat separation, received burns from ejected empty seat rocket. Cartridge failed to fire.
INJURY DESCRIPTION	R multiple extreme in disinte- gration of a/c upon impact w/ ground. L multiple extreme due to contact w/disintegrating cockpit structure during ejection at aircraft impact.	R 1st degree burns L & R legs anterior surfaces. Contusions on buttocks. L 1st, 2nd degree burns left leg posterior surface 1st degree burns right leg posterior surface. Taco: Multiple fractures and soft tissue injuries at ground impact. 3rd degree burns left hand, forearm & left posterior neck.
TYPE SEAT	ESCAPAC IE-1 TC	ESCAPAC 1E-1 TC
ATTITUDE	R wing down	
SPEED	UNK (stalled)	20-40 knots rolling on ground leaving runway
ALTITUDE	25 rear seats at impact front seats	0
A/C	S-3 A	8-3 A

SYNOPSIS A-7 MAJOR INJURIES

1974 - 1978

CONTRACTORS BASSASSES CONTRACTORS

PRODUCE CONTRACTOR CON

	CATEGORIES	NUMBER
0	SYSTEM FAILURES	1
	- Ejection initiated by windblast	1 ^{a}
	through failed canopy glass	
0	INJURIES	
	- Vertebral	
	- Cervical	h
	 Subluxation/fracture-dislocation 	1 ^b
	- Fracture	-
	- Strain/muscle spasm	4
	- Thoracic	
	- Fracture	3
	- Lumbar	
	- Fracture	2
	 Noncervical paravertebral strain 	1
	- Joints	
	- Shoulder dislocation	-
	- Shoulder fractures	-
	- Elbow fractures	-
	 Knee ligamental strains 	1 c
	- Knee derangement	ıc
	- Limbs	
	- Arm fractures	3 ^b) d)
	- Leg fractures	3 , 3 ,
	- Chest	
	- Rib fractures	-
	- Dislocations	
	- Burns	-
	- Brain concussion	-
	- Unconsciousness	•

NO'	res
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- (a) ESCAPAC IC-2 Face curtain failed under windblast loads causing ejection. Retention under windblast loads is a design requirement. ESCAPAC IG-2 Ejectee felt intense pain in neck during boost period. (b) Unable to look at landing area and broke leg landing on rock slide. During survival phase ejectee was in intense pain -- had to kneel and force head into ground to obtain relief. (c) ESCAPAC IC-2 Internal derangement of knee occured prior to landing believed caused by tumbling and resulting flailing. Injury required surgery to correct. (d) ESCAPAC IC-2 Survival kit hanging very low interfered with legs contributing to several fractures in left leg during parachute landing.
 - parachute landing.

 ESCAPAC IG-2 Sustained severe strain during boost phase subsequently inhibiting ejectee's ability to examine landing area. Broke left leg when left foot landed between rocks or roots.

A-7 MAJOR INJURIES

1974 - 1978

10. VICESCO CONTROL VICESCO CONTROL DIVINIO DIFFERENT SECTION PORTODI L'OPIETA CONTROL

½c	AL T.I YUDE	SPEED	ATTITUDE	SEAT TYPE	INJURY DESCRIPTION	EJECTION DESCRIPTION
A-78	1,500 (tumb)	200 Nose (tumbling noted landed in	Nose up ded in water)	ESCAPAC 1C-2	B Cervical strain. Contusion on — R hand. (hand on stick when ejection initiated using L hand.)	Following flame out, pilot ejected using lower firing control. Felt his hand snap hard to left. Strugging w/kit before getting it open.
A-78	25.000 est.	270 est.	25° Nose down wings level	ESCAPAC IC-2	B Soft tissue injury R elbow Burn left hand. Muscle spasm cervical. Possible fracture L-4 (discounted in MOR)	Canopy glass failed at 30,000 ft. While descending pilot was ejected '25,000 ft. by windblast.
A-78	1,100 (tum	194 (tumbling noted)	Nose up slightly 10° wings level	ESCAPAC 1C-2	B Internal derangement of R knee - (required surgery). Low- thoracic backstrain.	Used lower control to initiate ejection. Head slightly bent forward as seat was full up.
A- 7E	12,000	400 KIAS	Nose down 60° Left bank 90°	ESCAPAC IC-2	B Subconjunctivial hemorrage and — periorbital ecchymosis of eyes. Abrasions Ranterior tibia. Abrasions L shoulder.	Pilot was against the canopy in a spin, managed to puil lower handle w/3 fingers L hand. Eyes were swollen shut and was unable to see.
1-75	12,000	375	Nose down 10° R bank 135°	ESCAPAC IC-2	S Burned eyebrows soft tissue Injury R knee. Soft tissue injury L wrist.	Used face curtain to eject a/c on fire.
1-76	100-200 (experie	Nose down 5 Wings level Wings level Wings level Wings level Wings level Wing egress Wi	Nose down 5° Wings level idescending iring egress)	ESCAPAC IC-2	B Oblique fracture L distal tibia — and fibula and proximal fibula Compression fracture Ll. Abrasions, ecchymosis R & L shoulders.	Used alternate firing control following take off flameout. Survival kit hung low and helped produce broken L leg.
	_		_			

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A-7 MAJOR INJURIES

EJECTION DESCRIPTION	Ejected using lower control aware of severe back pain and violent rapid tumbling. Was unable to stand due to pain in R knee. R side of visor struck by UNK object during ejection.	Pulled lower control while floating off seat in inverted spin. Experienced severe neck pain. Landed on a rock slide (60° slope).	Following mid-air collision pilot was ejected from aircraft.	Used lower control while hanging in straps.	Used face curtain. Felt pain in neck on boost, felt pain in ankle on landing in rocks or roots.	Ejected following engine failure using face curtain
INJURY DESCRIPTION	Compression fracture 14 & 15 E Sprain R medial collateral o ligaments knee. Contusion r shoulders & upper anterion s thigh.	Fracture C-2 pedicle w/slight psubluxation. Fracture L fibula o Laceration of chin. Laceration if of L leg.	Probable compression fracture F 13. Abrasions on shoulders. W (anterior chest) & groin Hematoma & bruise on L mandible.	Compression fracture 112, L2, U. L3. Bilateral subconjunctival shemorrhage of eyes. Laceration wrist & L thigh.	Displaced fracture L distal Vsed face curtain. Felt pain fibula. Strain cervical spine. neck on boost, felt pain in a Multiple superficial lacerations on landing in rocks or roots. both hands.	Muscle spasm & contusion neck. E Abrasion R MIJ Dorsal index u finger. Abrasion L tibia. Abrasion R lateral arm. Contusion Inner thigh.
SEAT TYPE	FSCAPAC 1G-2 TC	ESCAPAC 1G-2 TC B	ESCAPAC 1G-2	ESCAPAC 1G-2 TC B	ESCAPAC 16-2 TC B	ESCAPAC 16-2 TC B
ATTITUDE	Mose down 2°	Nose down 15° UNK left bank flat/oscillating spin	UNK	UNK	5º nose down	Nose up
SPEED	500	350 est	350 (tumbling noted) (water landing)	350 (water landing)	180	160
ALTITUDE	800-1000	8,000 AGL	2,000 {tur	2,000	2,000 ·	800 AGL
A/C	A-7E	A-7E	A-7E	A-7E	A-7È	A-78

SYNOPISIS A-4 MAJOR INJURIES

	CATI		NUMBER		
0	SYS	ΓEM :	AILURES		3 ^a)
	-		ature opening survival kit		1 ^{b)}
	-		nstalled rocket		1
	_	Low	r ejection control		1
0	INJ	JRIE:			
	_	Ver	ebral		
		-	Cervical		
			- Subluxation/fractures-dis	location	1 ^{c)}
			- Fractures		3 ^c) g)
			- Strain		1 ^d)
			- Nerve Root compression		1 ^{e)}
		-	Thoracic		
			- Fractures		2
		-	Lumbar		,
			- Fractures		2 ^{e)}
		-	Joints		
			 Shoulder dislocation 		1
			- Shoulder fractures	•	2 ^g) g)
			- Elbow fractures		1 ^{g)}
			- Knee ligamental strains		3 ^{d)}
		-	Limbs		& \
			- Arm fractures		2 ^{f)}
			 Leg fractures 		e ^{c)}
		-	Chest		
			- Rib fractures		
			- Dislocations Burns 1 ^{h)}		1
		-	2		1 ⁱ⁾
		-	Brain concussion		2 ^e) k)
		-	Unconsciousness		2 . ,

NOTES

(a) Possibility of two other failures suggested by data:

TA-4J (seat not specified) Pilot attempted to open survival kit during descent to water. Despite pulling kit latching handle and removing the closure strap pin during descent, kit was not opened until some time after water entry.

TA-4J (ESCPAC IC-3) Rear seat occupant believed he initiated command ejection sequence. However, pilot saw canopy jettison, was blinded temporarily by windblast then saw instrument panel and pulled face curtain. (Command ejection might not have been selected).

- (b) TA-4J (ESCAPAC IF-3) Should be noted that a similar case (A-4M ESCAPAC IF-3) caused parachute entanglement and resulted in a fatality.
- (c) TA-4J (ESCAPAC IG-3) Pilot during descent was unable to move head, neck or limbs. Survived since he landed on ground.
- (d) TA-4J (ESCAPAC IF-3) Pilot ejected high speed from uncontrolled aircraft, survival kit prematurely opened, landed in water and climbed into raft.
- (e) TA-4J (Seat not specified) Rear seat occupant used lower handle, rocket misinstalled, low trajectory, tumbled badly and had rapid parachute. Ejectee sustained fractures of leg bones and of L5, was unconscious until under water.
- (f) TA-4J (ESCAPAC IC-3) injuries sustained by pilot during post mid-air collision ejection. (See Note (a)).
- (g) TA4-J (ESCAPAC IG-3) Pilot struck ground near horizontal apparently just after parachute opening during the initial post-inflation collapse and swing through phase. Injuries attributed to ground impact.
- (h) TA-4J (ESCAPAC IG-3) Rear seat occupant descended on outskirts of aircraft fireball sustaining burns. Additional burns incurred in approaching aircraft looking for pilot (Note (g)).
- (i) TA-4J (ESCAPAC IC-3) Rear seat occupant suffered amnesia for 24 hours badly dazed (See Note (f) for pilot).

(k) TA-4F (ESCAPAC IC-3 Rear seat occupant sustained dislocated shoulder; believes he blacked out at parachute opening.

GENERAL NOTES

Three ejectees, and possibly a fourth, were unconscious, badly dazed and disoriented, and/or paralyzed as a result of their ejection.

A-4 MAJOR INJURIES

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EJECTION DESCRIPTION	Life raft caught in parachute risers. Survival kit opened prematurely. Use life raft, failed to disconnect parachute. Noted stiffness in neck as he descended Helmet touched canopy had to lean forward to reach F.C. Suspended in harness due to spin.	Seat contacted ground on collapsed parachute behind ejectee. Empty rear seat struck aircraft stabilizer.	Pilot initiated ejection w/lower handle - failed. Then initiated successfully w/F.C. Heel pulled right, R hand on stick.	Possible blackout noted at parachute opening.	Mid-air collision of wingman wing- tip and canopy. Pilot does not recall initiating ejection. Landed in tree.	
INJURY DESCRIPTION	Cervical strain. R & L medial collateral ligament strain. Abrasion and contusion left lateral neck. Abrasion right lateral neck. He felt his legs flailing.	Compression fracture L1. Separation costochondral junction. Abrasion right neck (riser burn)	R jaw and neck contusions (O ₂ mask slap)	Left shoulder dislocated (struck against canopy railing.	Probable compression fracture T-7. Ecchymoses acromio - clavicular areas - bilateral abrasions R side of neck.	•
SEAT TYPE	ESCAPAC JF-3	ESCAPAC 1C-3	ESCAPAC 1C-3	<u> </u>	ESCAPAC IA-1	
1 ATTITUDE	R spin nose down	Nose low 30° L wing down 30° High descent rate Left hand turn	15-20° nose down left bank 90-110°		UNK	
SPERD	UNK	160 50)	250 KIAS und)		250	
ALTITUDE	8,000	1,000 160 (parachute open 50)	9,000 MSL 250 (landed on ground)		12,000	
Α/c	TA-4J	TA-4J	TA-4F		A-4L	

A-4 MAJOR INJURIES

1974 - 1978

EJECTION DESCRIPTION	Pilot used face curtain. Could not open survival kit until in water.	Used lower handle. Seat was observed by wing to exit w/large ball of flame underneath and pitch 90° aft immediately, barely clearing tail. Ejectee unconscious until under water.	Initiated escape w/F.C. seat full up. Noted pain in neck after parachute opening, unable to flex neck.	Pilot used face curtain to initiate ejection.	Sequenced ejection. Saw pilot reach for F.C. and tried to position himself for impending ejection.
INJURY DESCRIPTION	6 No Injury.	E Compression fracture L5. Avulsion fracture greater tuberosities of bilateral humerus. Fracture lateral plateau L tibla. Avulsion fracture R fibula. 1st & 2nd degree burns 15% of body.	B Comminuted fracture C-2 with minimal posterior movement. Loss of 1st R maxillary incisor.	F Abrasion L check. Contusion R arm lateral aspect. Contusions and abrasions axillac & shoulders R & L. Contusions L anterior superior illiac spine area. Contusions popliteal fossae, distal thighs and proximal legs R & L.	B Strain of R knee medial col- lateral ligaments. Compression fracture T5. Contusion upper lateral R side chest wall. Contusion L superior medial- anterior surface.
SEAT TYPE	ESCAPAC		ESCAPAC 1G-3	ESCAPAC 1F-3	
ATTITUDE	Nose down 10° Left bank 15°		80° nose down Lefthand spiral	Straight and level.	
SPEED	190 TAS	205 ment was ()	250-300	220 ed 2 or 3 times	
ALTITUDE	1,800	2,000 (parachute deployment was almost immediate)	14,000	800 (water landing) (both seats tumbled 2 or 3 times)	
Α/C	TA-4.)		A- 4M	1A-A.	

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A-4 MAJOR INJURIES

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EJECTION DESCRIPTION	Mid air collision. Pilot believes he used F.C. Saw canopy go, Tem- porarily blinded by Windblast, then seeing instrument panel pulled F.C.	Believes he used alternate handle, command ejection.	Sequenced ejection landed horizon- tally feet first.	Face curtain initiation of command sequenced ejection.	Initiated escape w/lower handle. Unable to move extremities while descending.
INJURY DESCRIPTION	B Evulsion greater tuberosity L shoulder. Fracture L upper arm. Sprain L knee. Abrasion neck. Ecchymosis of face around eyes.	B Brain concussion. Abrasion R - side of neck. Abrasion R arm. Bruise L hip. Ecchymosis of face. Amnesia for 24 hours.	B Fracture of L clavicle. Fracture of L scapula. Compression fracture C5. Fracture L radial head (elbow) all attributed to ground impact.	B 2nd & 3rd degree burns hand and arms. 3rd degree burn back. 2nd degree burn knees position and anterior. All attributed to fire fall involve-	Subluxation C-6/C-7 w/fracture spinous process. Compression fracture C-7 C-8 nerve root compression. Contusion of R collar bone, clavical & shoulder regions.
SEAT TYPE	ESCAPAC IC-3		ESCAPAC 16-3		ESCAPAC 16-3 ght
ATTITUDE	go° graft)		Take-off roll w/nose gear steering failure 2-3° nose down		210 10-15° nose down ES noted) n a thick briar bush) man-seat separation noted & thought cervical injuries)
SPEED	450 est of another air by collision)		120		210 g noted) n a thick bria man-seat sepa cervical injur
ALTITUDE	2000 est 450 est 90° (wing struck nose of another aircraft) (no injury caused by collision)		Ground		2000 10-15° (extreme tumbling noted) (landed on back in a thick briar bush) (seat twisting at man-seat separation contributing to cervical injuries)
A/C	TA-4J		TA-4J		TA-4.)

A-7 OTHERS 1974 - 1978

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EJECTION DESCRIPITON	Pulled lower control as aircraft pitched violently downward after engine failure.	Face curtain following engine failure.	face curtain following engine failure.	Face curtain.	Lower control following hydraulic failure.	Lower control following mid-air collision - had difficulty reaching it due to negative G forces.	Face curtain following mid-air collision.
INJURY DESCRIPTION	F Neck muscle strain. Abrasion — R dorsum of hand.	F Mild neck strain.	G No injuries listed	G Minor pain in neck and back.	G Minor cervical strain.	G Abrasion, bilateral dorsum of feet. Hild neck muscle strain.	F Soft tissue injury R knee. Aggravation of old injury R knee. Cervical spine and neck aggravation of old injury. Lumbar spine soft tissue.
SEAT TYPE	ESCAPAC 1C-2	ESCAPAC 1C-2	ESCAPAC IC-2	ESCAPAC 1C-2	ESCAPAC 1C-2	ESCAPAC IC-2	ESCAPAC 1G-2 TC
ATTITUDE	30° nose down	Nose up 5º	Nose down 2º t handle lost - open kit)	Nose up 15º	Nose down 5-10°	Nose down 90°	NN C
SPEED	220 anding) noted)	200 KIAS (tumbling seat separation) (ground landing)	300 AGL 200 KIAS Nose d (ground landing) (survival k t handl could not open k	120	125 KIAS (ground landing)	300 1 ng)	UNK
ALTITUDE	3,500-4,000 220 (ground landing) (tumbling noted)	600 MSL (tumbiling (ground le	3,330 AGL (ground land)	200	150 AGL (ground	15,000 300 (water landing)	7000
A/C	A- 7A	A-7E	A-7C	A-7C	A-7A	A-7C	A-78

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A-7 OTHERS

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INJURY DESCRIPTION EJECTION DESCRIPTION	F Abrasion left hand. Abrasion Pulled face curtain after electrical L chin. Strain R sterno-cleidomastoid.	G Abrasion posterior R neck. - Abrasion R hand 2nd MP joint. Laceration L elbow. Mild neck strain.	Contusions R & L dorsums (feet). Ramp strike following engine failure, aircraft broke up, ejected leaving deck using lower handle.	G Bilateral laceration of tongue. Mid-air collision used lower— Massive hematoma & small lace-ration L buttocks.	G Muscle & Iigament strain lumbo - Lower ejection handle after over- - sacral spine. Contusion posterior R thigh. Minor abrasions from being dragged.	F No injuries noted. Ejectee Lower control after lifting off. — stated he delayed ejection due retracting gear and settling back to doubts of seat reliability.	
SEAT TYPE	ESCAPAC IG-2 TC	ESCAPAC 1G-2 TC	ESCAPAC 1G-2 TC	ESCAPAC IC-2	ESCAPAC 1G-2 TC	ESCAPAC 1G-2 TC	
ATTITUDE	Slight nose up	Nose up	Nose down 5-10° Left bank 45°	30° nose down 30° left bank rolling	Nose down 10-20° Left bank 15-25° going over embankment.	Nose up. S11d1ng on runway	
SPEED	(slight tumbing water landing)	220 9)	780 ng)	1000 250 30° nose (tumbling noted) 30° left 30° left bART not connected to aircraft) rolling ground landing - ejectee fell on Mit)	cracked) breaker may not	130 h sustainer ind landing) being dazed)	
ALTITUDE	7000 (slight tumb	1200 2 (water landing)	50 78 (water landing)	1000 (tumbling neted) (DART not connected to ground landing - ejec	5-10 KTS ground landing) R canopy breaker cracked) evidence L canopy breaker have deployed)	Ground problem noted with sustainer rocket (ground landing) ejectee reported being dazed	
A/C	A-7E	A-7E	A- 78	A-7E	A-7E	A-7E	

A-7 OTHERS

1974 - 1978

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EJECTION DESCRIPTION	Used lower control prior to aircraft impacting parked aircraft on deck.	Face curtain during control failure following launch.	Lower control from out of control	Cold cat shot, lower control.	Face curtain used after loss of power.
INJURY DESCRIPTION	G Abrasion L foot. Minor burn - L hand. Minor contusion L orbit.	G Cervical spine strain.	G Upper back -interscapular area muscles strained w/mild spasm. Fracture took #8. Left eyebrow & adjacent area 1º burn. L wrist 1º burn. Tender teeth and sore jaw.	F(3) Multiple lacerations of lower lip.	G Abrasion R dorsum (hand)
SEAT TYPE	ESCAPAC 16-2 TC	ESCAPAC IG-2 TC	ESCAPAC 1G-2 TC	ESCAPAC 1G-2 TC	ESCAPAC 1G-2 TC
ATTITUDE	(pa	Left wing down 30-45°	Flat, upright non-oscillatory spine. Nose down 10°	Sliding off bow cold cat shot Nose down 20° Right bank 5°	Nose up 3° Shallow level descent.
SPEED	135) (pilot was dazed)	149 45° face down)	0	50	150 area)
ALTITUDE	60 (tumbling noted) (water landing)	150 (water landing - 45° face down)	6,500 (water landing)	60 (water landing)	80 (landed in wooded
A/C	A-7E	4-7E	A-7E	I-7E	1-76

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A-4 OTHERS

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A /C	ALTITUDE	SPEED	ATTITUDE	SEAT TYPE	INCHIDA DESCRIPTION	E LECTION DESCRIPTION
A-4E	Ground level	80-100	Level Sliding down runway on wing tanks	ESCAPAC 1A-1	Mild back strain 18/112. Contusion L buttock.	Ejection initiated with lower hand while sliding gear up on runway. Bent down to look for handle before ejecting.
TA-4J	11,000'	200 KIAS Invertes spin (unable to open kit) (landed on ground)	Inverted flat spin pen kit) round)	ESCAPAC 16-3	G Meck and back muscle strain. G Small contusions with muscle strain in neck.	Both occupants pushed against canopy by negative G. Pilot was ejected w/o warning by command sequence initiated by rear seat occupant.
А-4М	.000.	350+ (unable to o away) (lande	350+ Nose down 70-80 ⁰ ESCAPAC IF-3 rolling L (unable to open kit) (kit retention straps torn away) (landed in water)	ESCAPAC 1F-3 ntion straps torn	F Cervical strain. Abrasions and contusions L and R shoulders Bruises posterior buttocks.	Face curtain
A-4L	Ground level (noted backward	110 Summersault)	Straight & level on runway	ESCAPAC 1A-1 (NES-1G-A chute)	G Contusion over eye Contusion of knee Bruise R shoulder	Aircraft fire, uncontrollable shortly after landing. Face curtain. Helmet visor broken by unknown cause.
A-4L	1,000' (Ground landing)	200	Straight & level	ESCAPAC 1A-1	F Mild cervical strain Contusion on thorax (Grounded 24 days in lieu of 5 since he would not return to activity until then reservist.	Engine flameout, face curtain since he would not return to st.
1-46	5,000' est. (Ground landing)	300 est.	Spin, left turn, nose down	ESCAPAC 1A-1	Ligamentous strain L knee Ligamentous strain R knee Contusion and abrasions anterior neck Numerous other muscular skeletal aches and pains.	Pushed against canopy during spin.

A-4 OTHERS

1974 - 1978

Lower control, command ejection. Command ejected following bird strike, hands on throttle control. Helmet damaged by bird strike. Take-off roll loss of control. Lower control. Both pilots forced up against canopy by negative G. Initiated escape with lower Ejection followed mid-air collision. Lower ejection handle. EJECTION DESCRIPTION Used lower control and stick. Strain L shoulder subjunc-tional hemmohage both eyes. Hematoma and muscle strain right thing and knee Contusions and tenderness posterior/inferior aspect of both thighs laceration dorsum of R wrist (trees?) 2 Abrasions and ecchymosis of skin~riser burn No injuries listed. Pain in R lateral calf. Laxity lateral and medial collateral ligaments (knee) Sprain and laceration R wrist (bird strike) Slight abrasions face neck INJURY DESCRIPTION No injuries listed L. ပ ی G Ġ SEAT TYPE ESCAPAC-16-3 ESCAPAC 1G-3 ESCAPAC 16-3 ESCAPAC 1C-3 ESCAPAC 1A-1 -could not Nose level, wings level lap belt fittings Nose down 30° pin stabilized upright hesita-tion Nose down spin ATT ITUDE Nose up 15º Tumb I Ing | 100-124 |(flailing noted | after release of | 1500-2000 150 (Landed in a tree) (Notes unconscidusness) (Lost seat pan release handle, 0₂ sheared off) SPEED 80-100 350 8 2,000'
(Landed on ground)
(Flatling noted)
(Tumbling noted) Ground 0 (landing on ground) 12,00 (Water landing) ((Seat kit sank af find lanyard) ALTITUDE 14,000 TA-4J TA-43 TA-4J TA-4J A-4E ¥

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A-4 OTHERS

1974 - 1978

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EJECTION DESCRIPTION	Was ejected following flameout and accidentally jettisoning canopy.	Initiated command ejection wilower control.	Face curtain command eject	Command ejected holding torso harness	Face curtain	Lower control-had difficulty due to being against canopy.	Lower control.	Face curtain flamecout after take- off
INJURY DESCRIPTION	Abrasion L knee. Abrasion L elbow. Abrasion R knucles Abrasion forehead	Strained muscles posterior neck	Contusion shoulder	Sprain R foot and 5th metatar- sal. Contusion anterior shoulder mild hyperextention	No injuries	Minor abrasions L and R shoulders and inquinal areas L conjuctional hematoma tem- noral aspect	lacerations, multiple minor of neck (wore religious chain) Iwo minor lacerations L wrist (Lost wrist-watch) Both forearms-cactus needle punctures Contusion R forearm medial aspect	Lumbosacral strain
_	ی	وا	ی	both 6	ت ا	င	C	c
SEAT TYPE	ESCAPAC 1C-3		ESCAPAC 1F-3	torn from kit bo	(500)	ESCAFAC 1A-1	ESCAFAC TG-3	ESCAPAC 1G-3
ATTITUDE	Wings level		Winds level 15° nose down	(RSSK damaged on seat-man separation) (0, hose torn from kit kits retention straps failed, grpund landing)	Nose 80-90 down	Nose down 95 Inverted spin	Nose down 30-60° inverted oscil- lating spin	Nose up 5° perly rigged)
SPEED	150 ding)		230-250 KIAS	ed on seat-man se straps failed, gr	3,000 MSL 285 Nose 80	o (bui	9,000 MSi 7,200 7,500 AGL (Landed in cactus patch) (Arm flailing)	ding) (DART improperly ri
ALTITUDE	750 (ground landing)	,	4,500 AGL 8,500 MSL	(RSSK damag	5,000 MSL 3,000 AGL	4,200 (Water landing)	9,000 MSI 7,500 AGL (Landed in (Arm flaili)	350 (Ground landing)
A/C	TA-4J		TA-4J		A-4M	A-4E	TA-4J	TA04J

GENERALIZED ESCAPE

TOURS CONTRACT SECURITY SECURITY RECORDS EXPERIENCE SECURITY SECURITY SECURITY SECURITY PROCESSES (SECURITY)

SYSTEM DEVELOPMENTAL

HISTORY

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GENERAL INFORMATION CONCERNING **AAES RELIABILITY & MAINTAINABILITY**

Have you heard of the wonderful one-hoss shay,
That was built in such a logical way
It ran a hundred years to a day,
And then, of a sudden, it—ah, but stay,
I'll tell you what happened without delay,
Scaring the parson into fits,
Frightening people out of their wits,—
Have you ever heard of that, I say?

THE DEACON'S MASTERPIECE, OR THE WONDERFUL "ONE-HOSS SHAY"

A LOGICAL STORY
OLIVER WENDELL HOLMES

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100mm (201 miles)

Now in building a chaises, I tell you what,
There is always somewhere a weakest spot,—
In hub, tire, felloe, in spring or thill,
In panel, or crossbar, or floor, or sill,
In screw, bolt, thoroughbrace,—lurking still,
Find it somewhere you must and will,—
Above or below, or within or without,—
And that's the reason, beyond a doubt,
That a chaise breaks down, but doesn't wear out.

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THE DEACON'S MASTERPIECE OR THE WONDERFUL "ONE-HOSS SHAY"

A LOGICAL STORY
OLIVER WENDELL HOLMES

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But the Deacon swore (as Deacons do, With an "I dew vum," or an "I tell yeou,") He would build one shay to beat the taown 'N' the keounty 'n' all the kentry raoun'; It should be so built that it couldn' break daown: "Fur," said the Deacon, "' 't's mighty plain Thut the weakes' place mus' stan' the strain; 'N' the way t' fix it, uz I maintain,

Is only jest
T' make that place uz strong uz the rest."

THE DEACON'S MASTERPIECE, OR THE WONDERFUL "ONE-HOSS SHAY"

A LOGICAL STORY
OLIVER WENDELL HOLMES

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First of November, Fifty-five!
This morning the parson takes a drive.
Now, small boys, get out of the way!
Here comes the wonderful one-hoss shay,
Drawn by a rat-railed, ewe-necked bay.
"Huddup!" said the parson.—Off went they.

The parson was working his Sunday's text,— Had got to *fifthly*, and stopped perplexed At what the-Moses-was coming next. All at once the horse stood still, Close by the meet'n'-house on the hill. First a shiver, and then a thrill, Then something decidedly like a spill,— And the parson was sitting upon a rock, At half past nine by the meet'n'-house clock,-Just the hour of the Earthquake shock! What do you think the parson found, When he got up and stared around? The poor old chaise in a heap or mound, As if it had been to the mill and ground! You see, of course, if you're not a dunce, How it went to pieces all at once,— All at once, and nothing first,— Just as bubbles do when they burst.

End of the wonderful one-hoss shay. Logic is logic. That's all I say.

THE DEACON'S MASTERPIECE, OR THE WONDERFUL "ONE-HOSS SHAY"

A LOGICAL STORY
OLIVER WENDELL HOLMES

COUNTING IN-SERVICE FAILURES

- ATTEMPTING TO MAKE RELIABILITY ESTIMATES ON BASIS OF IN-SERVICE USAGE DIFFICULT AND AND UNRELIABLE PROBLEMS AFFECTING CREDIBILITY OF SUCH DATA INCLUDE ESPECIALLY TWO MAJOR ONES:
- LARGE NUMBER OF SEATS NEVER RECOVERED
- VARYING DEGREE OF EXPERTISE APPLIED IN EXAMINING RECOVERED SEATS.
- USN POSITION EXPRESSED IN:

AIRCREW AUTOMATED ESCAPE SYSTEMS RELIABILITY AND MAINTAINABILITY (R/M)PROGRAM REQUIREMENTS MIL-STD-2067

INTERPRETATION OF ACCIDENT DATA OF VARYING VERACITY AND AS SUCH IS NOT AN ACCEPTABLE QUANTIFICATION "3.2.6 IN SERVICE SUCCESS RATE. THAT PERCENTAGE OF EJECTING AIRCREW WHO SURVIVED THROUGH SEPARATION NONMALFUNCTION FATALITIES, AND SYSTEM MALFUNCTION CAUSED FATALITIES. SEPARATION OF THESE EFFECTS TO CORRECT THE SUCCESS RATE TO OBTAIN A MEASURE OF IN SERVICE RELIABILITY IS A MATTER OF JUDGMENTAL THE "OUT-OF-ENVELOPE" EJECTIONS, UNSUCCESSFUL (NONMALFUNCTION) "OUT-OF-ENVELOPE" EJECTIONS, OTHER FROM THE ESCAPE SYSTEM AND SURFACE CONTACT. INCLUDES MANY "LUCKY" OR "FLUKE" SAVES FROM AMONG OF AAES RELIABILITY." 当の

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AAES MALFUNCTIONS

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TYPES OF MALFUNCTION

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PRECLUDE INFLIGHT
 ESCAPE FROM AIR CRAFT

• IMPAIR AAES
OPERATION

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NOT ALL AAES MALFUNCTIONS PRECLUDING INFLIGHT ES-CAPE FROM AIRCRAFT SHOW IN EJECTION STATISTICS.

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- ▲ THOSE THAT DO ARE FATAL ATTEMPTS TO EJECT.
- AAES, BUT BECAUSE OF SOME OTHER METHOD OF ESCAPE SURVIVORS, HOWEVER, SURVIVE NOT BECAUSE OF THE AND ARE SO CODED.
- RECORDS EXAMINED REVEALED 35 ESCAPES ATTEMPTED, **BUT NOT ACCOMPLISHED CASES WITH 17 FATAL EJECTION** ATTEMPTS AND 18 NON-EJECTION SURVIVAL METHODS.

1 K664688 (K888888) | PARES (PARES)

SOUTH BASSASSE REALISM BASSASSE BASSASSE BASSASSE BASSASSES

MIL-S-18471 DEFINES EJECTION SEATS AS ELEMENTS OF

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AIRCREW AUTOMATED ESCAPE SYSTEMS

REQUIRING THAT ALL ESCAPE SEQUENCE EVENTS OCCUR AUTOMATICALLY FOLLOWING ACTUATION OF A SINGLE CONTROL.

FAILURE OF AN ACTUATED CONTROL TO INITIATE THE ESCAPE SEQUENCE OR INTERRUPTION OF THAT SEQUENCE, WHETHER OR NOT EJECTEE MANUALLY BY-PASSES THE FAILURE POINT IS A SYSTEM FAILURE,

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NAVY IDENTIFIED

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ESCAPAC FAILURES DURING PERIOD REVIEWED BY DAS 1/1/74-6/30/78

- RSSK PREMATURE OPENING AT SEPARATION
- RSSK OPENING PREVENTED BY DAMAGED AT SEPARATION.
- 5 LANYARD FAILURES
- SEAT MAN SEPARATION FAILURES
- SEAT FAILED TO FIRE
- . WINDBLAST INDUCED EJECTION
- SUSTAINER ROCKET FAILURES
- LOWER HANDLE FAILED
- 1 PARACHUTE DID NOT DEPLOY (ARMING CABLE RELEASE)
- 1 CANOPY BREAKERS FAILED
- 21 FAILURES IN 140 NAVY ATTEMPTS

Processory Processors

THE RESERVE TO SOME STATES OF THE PROPERTY ASSESSED.

COUNTING IN-SERVICE FAILURES (CONT'D)

- USN DETAILED REVIEW OF ESCAPAC USAGE RECORDS REVEALED THAT OUT OF 140 EJECTIONS DURING PERIOD COVERED BY DAS
- (ALL OVERLAND EJECTIONS CONSIDERED RECOVERABLE --ONLY 80 SEATS WERE RECOVERED OR RECOVERABLE NOT KNOWN HOW MANY WERE).
- 21 KNOWN FAILURES WERE IDENTIFIED (DETAILS FOLLOWING CHART).
- 17 FAILURES WERE IDENTIFIED AMONG RECOVERED/ RECOVERABLE SEATS.
- GIVEN F = 21, N = 140

HOWEVER, SINCE 60 SEATS WERE LOST IN OCEAN AND NOT RECOVERED, MORE REALISTIC ESTIMATE GIVEN BY F = 17, N = 80: ز د

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ESTIMATES OF ESCAPAC IN-SERVICE RELIABILITY (1/1/74 - 6/30/78)

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				ESCAPAC SEAT TYPE	SEAT TY	PE		
	IA-1	10-2	10-3	IE-1	1F-3	16-2	16-3	TOTAL
NUMBER OF FAILURES	κ.	3	~	-	2	2	20	21
Number of FAILURES WITH RECOVERED SEATS	~	2	2	-	~	~	2	16
TOTAL NUMBER OF ATTEMPTS	17	52	19	2	15	32	27	140
NUMBER OF ATTEMPTS WITH RECOVERED SEATS	11	13	13	7.	7	15	20	81
RELIABILITY BASED UPON RECOVERED SEATS AT 90% LCL	,436	.590	.590	,343	.013	.560	.717	,730
RELIABILITY BASED UPON TOTAL ATTEMPTS AT 90% LCL	th09'	,718	.641	.343	.423	.775	.737	.800

AT A LOWER CONFIDENCE LEVEL (CONT'D) INTERPRETATION OF RELIABILITY

- RELIABILITY IS AN INHERENT FEATURE OF PRODUCT'S DESIGN THAT CANNOT BE MEASURED DIRECTLY
- TRUE RELIABILITY (RT) CAN BE QUANTIFIED ONLY AS ESTIMATES BASED UPON TRIAL (TEST) RESULTS.
- CONFIDENCE LEVELS ARE USED TO EXPRESS PROBABILITY THAT RT IS BOUNDED BY ESTIMATED RELIABILITY VALUES.
- LOWER CONFIDENCE LEVEL RELIABILITY VALUES (R_{LCL}) EMPLOYED AS NOT CONSERVATIVE ESTIMATE OF RI
- PROBABILITY RT IS BELOW RLCL EQUALS 1 LCL
- THEREFORE NAVY USE OF R. 90LCL = .98 STATES USN CONFIDENCE OF 95 PERCENT THAT RT 1S EQUAL TO, OR GREATER THAN 0.98.

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| 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 100mm | 10

RELIABILITY

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INTERRELATIONSHIP BETWEEN RELIABILITY AND CONFIDENCE LEVEL DEFINED BY:

 $C = 1 - R^N$

WHERE

C IS CONFIDENCE LEVEL

R IS RELIABILITY

N IS NUMBER OF TESTS, WITHOUT FAILURES.

RELIABILITY

STATES STATES STATES STATES

MANIPULATING THE PREVIOUS EQUATION AS FOLLOWS

$$C = 1 - R^{n}$$

$$^{-1} = 1 - C$$

$$\mathbf{R} = \mathbf{e}^{\mathsf{LN}(1-\mathsf{C})/\mathsf{N}}$$

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BASED UPON OBSERVED FAILURE RATE (CONT'D) CALCULATION OF RELIABILITY

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FROM THESE DATA, THE DAS CALCULATIONAL APPROACH IS:

$$= 1 - \frac{4}{179}$$

$$= 0.978$$

USING THESE DATA (F=4, N=179) SYSTEM RELIABILITY AT 90 PERCENT LOWER CONFIDENCE LEVEL IS:

LOWER CONFIDENCE LEVEL FOR DAS CALCULATED RELIABILITY IS: 71 PERCENT (OBTAINED FROM TABLES)

USN CONFIDENCE IN NEW SEAT RELIABILITIES (CONT'D)

- RELIABILITY IS DESIGNED IN, NOT TESTED INTO A SYSTEM.
- TESTING PROVIDES DATA WITH WHICH TO ESTIMATE SYSTEM RELIABILITY.
- NAVY SINCE PROCURING INITIAL ESCAPACS HAS UPGRADED
- DESIGN REQUIREMENTS
- RELIABILITY, MAINTAINABILITY, SAFETY, HUMAN FACTORS REQUIREMENTS
- CONTINUOUS DESIGN EVALUATION PROCEDURES
- TESTING REQUIREMENTS.
- HOWEVER, NEW SEATS NO ESCAPACS HAVE BEEN PROCURED UNDER THESE. BE. HAVE AND REPLACEMENT SEAT WILL
- OF ACHIEVING HIGHER RELIABILITIES WHILE ACHIEVING MAJOR ADVANCES THESE UPGRADED REQUIREMENTS/PROCEDURES ENHANCE PROBABILITY PERFORMANCE.

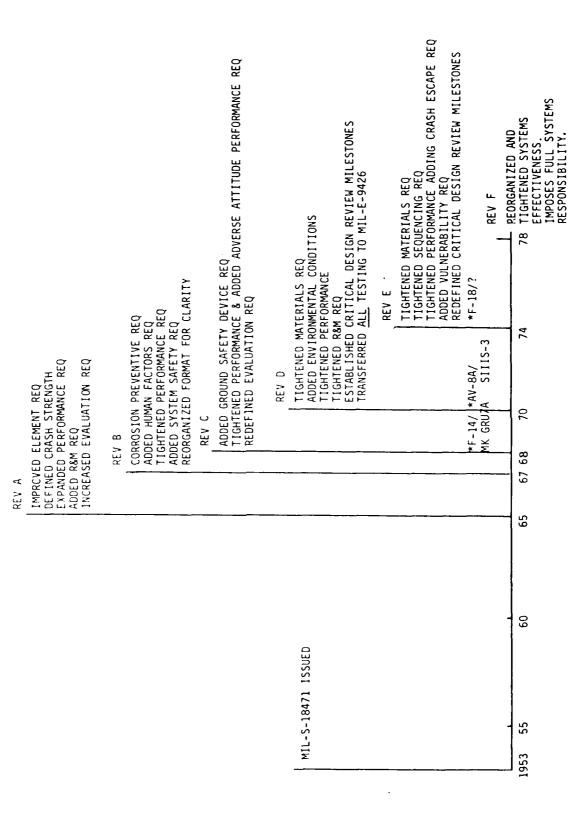
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MIL-S-18471 HISTORY



SYSTEMS EFFECTIVENESS PROGRAM TOOLS AIRCREW AUTOMATED ESCAPE SYSTEM

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REL I ABILITY

- Reliability system block diagram & math model
- FMEA (FAILURE MODES AND EFFECTS ANAYLSIS)
- FTA (FAULT TREE ANALYSIS)
- SINGLE POINT FAILURE ANALYSIS
- ENVIRONMENTAL STUDY
- CRITICAL DESIGN REVIEWS
- COMPONENT PARTS & MATERIAL SELECTION/QUALIFICATION
- SUPPLIER CONTROLS
- FAILURE DATA COLLECTION & ANALYSIS
- FAILURE SUMMARIES
- MOS (MARGINALITY OF SUCCESS ANALYSIS)
- RELIABILITY GROWTH CURVES

MAINTAINABILITY

- MAINTAINABILITY SYSTEM BLOCK DIAGRAM & MATH MODEL
- MAINTAINABILITY GROWTH CURVES
- FMK (FIELD MAINTAINABILITY REVIEW KIT)

SYSTEMS SAFETY

- HMEA (HAZARDS MODES AND
- FTA (FAULT TREE ANALYSIS)

EFFECTS ANALYSIS)

• OHA (OPERATION HAZARD ANALYSIS)

VULNERABILITY ANALYSIS

- CIFMEA (COMBAT-INDUCED FAILURE MODE AND EFFECT ANALYSIS)
- HIT RATE ANALYSES
- VULNERABILITY DESIGN REVIEWS

CHANGES HISTORY

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NAVAIR EJECTION SEAT DESIGN EVALUATION PROGRAM

PRE-1968 EVENT FLOW SEQUENCE

SYSTEM CONCEPT EVALUATION PHASE	
PROPOSAL SUBMITTAL & EVALUATION PHASE	
PRELIMINARY SYSTEM DESIGN PHASE	Seat Mock-Up Review
SYSTEM DEVELOPMENT/DESIGN PHASE	
SYSTEM QUALIFICATION PHASE	Component Qualification Testing System Qualification Testing
SYSTEM RELEASE PHASE	System Released To Fleet

AIRCREW AUTOMATED ESCAPE SYSTEM
DESIGN EVALUATION PROGRAM EVENT FLOW SEQUENCE DIAGRAM

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PETURE SULTY MANTANABULTY MANTANABULTY ANAVAR CRITICAL SOSTINES SACTOR SULPERALS RESCONDER SULTANABULTY SOSTINES SACTOR SULFERALS CONTRACT FOR CONTRACT CONTRACT FOR CONTRACT		SYSTER FAULTY BERNOSTALIOR	WITH MODIFY WARMS WITH MODIFY WARMS WITH MODIFY WARMS WITH MODIFY WARMS	THE AMENDMENT AS TO THE CONTROL OF T	TANDA SELVEN CONTECTION AND THE SELVEN CONTECTION AND THE SELVEN CONTECTION AND THE SELVEN CONTECTION AND THE SELVEN CONTECTION AND THE SELVEN CONTECTION	ATTOL TOWN TANKENITY ATTOL TOWN INVESTIGATION	TREAD AAALTES WO AAALTES TREAD AAALTES WO AAALTES TREAD AAALTES WO AAALTES TREAD AAALTES WO AAALTES TREAD AAALTES WO AAALTES TREAD AAALTES WO AAALTES TREAD AAATTES TREAD AAALTES TREAD AAALTES TREAD AAATTES TREAD AAATTES TREAD AAATTES	BAUR (V. mp.) ii 1714/9 A176 A176 A176 A176 A176 A176 A176 A176		NOLLONOME DE TREETE E
		SYSTEM CONCEPT EVALUATION PHASE	PROTOCOLA TOTAL MANDEN DES GRANDA DE L'ATTER EN L'ATTER				DPEATIGNAL PRALIETOR GPPYAL)	NAVAR PRAL REVETO &		
HOLESCO SECONDO	DEFECT.	VALIDATION PHASE	Provi (Obs. ps. 1 Obs. ps. 1 Provinced 1 Provinced					OPERITORIAL PRAZUATORI (PRETIAL) (BETTIAL)	MALE NOR PLAKE	

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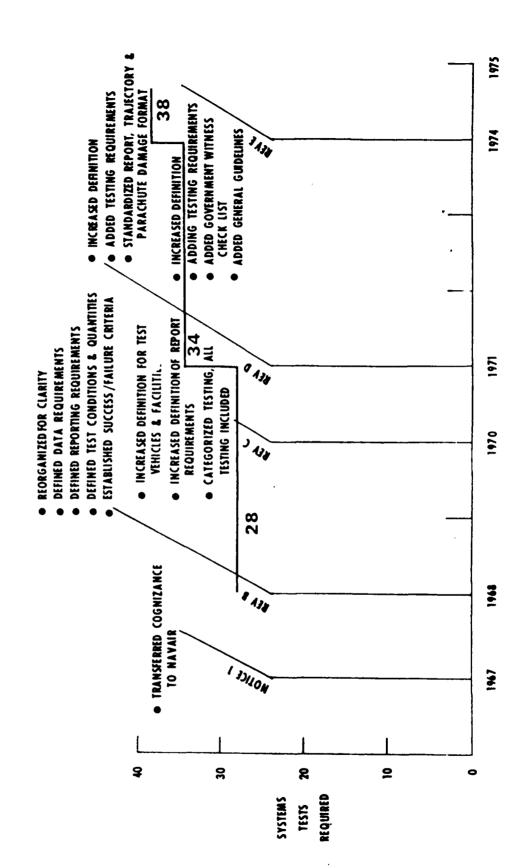
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MIL-E-9426 HISTORY LISTING MAJOR CHANGES

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MAINTAINABILITY

MAINTAINABILITY IS AN INHERENT FEATURE OF A SYSTEM'S DESIGN. MAINTAINABILITY CAN BE CONTROLLED DURING DESIGN OF A SYSTEM.

 MAINTAINABILITY CANNOT BE TESTED INTO A SYSTEM'S DESIGN. T.

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EQUIPMENT FAILURES DUE TO FAULTY MAINTENANCE

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- SOME IMPACT GROUND PERSONNEL SAFETY IMPACTS EJECTIONS. SOME IMPACT FLIGHT. NOT ALL FAULTY MAINTENANCE WORK
- AS A CONSEQUENCE OF EJECTION FAILURES. NOT ALL FAULTY MAINTENANCE IS FOUND SOME IS DETECTED BY INSPECTION. SOME IS DETECTED THROUGH SUBSEQUENT MAINTENANCE

MANY, IF NOT MOST, "MAINTENANCE

ERRORS" RESULT FROM OVERLY

HUMAN DEPENDENT DESIGN

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RECENT DESIGN REQUIREMENTS

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AIMED AT ELIMINATING

HUMAN DEPENDENCY DESIGNS

MAJOR DESIGN & DESIGN EVALUATION EFFORTS FOR NEWER EJECTION SEATS WERE CONCENTRATED ON:

- REDUCING MAINTENANCE FREQUENCY
- ELIMINATING MAINTENANCE ERROR POTENTIALS. (ELIMINATE HUMAN DEPENDENCY DESIGNS)

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CONCERNING NEW SEAT MAINTAINABILITY ASSURANCE

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- MAINTAINABILITY IS AN INHERENT FEATURE OF A SYSTEM'S DESIGN.
- SINCE PROCURING INITIAL ESCAPACS, NAVY HAS INTRODUCED AND UPGRADED
- MAINTAINABILITY DESIGN REQUIREMENTS:
- · EXTENDED PERIODS BETWEEN MAINTENANCE ACTIONS
 - · EASE AND SAFETY OF PERFORMING MAINTENANCE
- SPECIFIED E-4 SKILL LEVEL CAPABILITY PERFORM 95% OF ALL MAINTENANCE
 - IMPOSED MAXIMUM TIME LIMITS ON PERFORMING MAINTENANCE
- MAINTAINABILITY DESIGN EVALUATION REQUIREMENTS
- MAINTAINABILITY TESTING REQUIREMENTS:
- TWO SPECIAL TESTS (FIELD MAINTAINABILITY REVIEWS)
 - · SPECIAL ATTENTION DURING ALL TESTING
- NO ESCAPACs HAVE BEEN PROCURED UNDER THESE REQUIREMENTS WHILE NEW SEATS HAVE BEEN AND REPLACEMENT SEAT WILL BE.
- THESE UPGRADED REQUIREMENTS/PROCEDURES ENHANCE PROBABILITY OF ACHIEVING SIGNIFICANTLY IMPROVED SEAT MAINTAINABILITY WHILE ACHIEVING MAJOR

RELIABILITY AND MAINTAINABILITY REQUIREMENTS

DETAILED REQUIREMENTS IN ADDENDUM 3 OF RFP (TAILORED VERSION OF MIL-STD-2067 R&M FOR ESCAPE SYSTEMS)

CALCULATED RELIABILITY AT LEAST 0.98 @ 90%

DMMH/FH PER SEAT SHALL NOT EXCEED 0.05 HOURS

MTTR SHALL NOT EXCEED 0.85 HOURS

MAXIMUM CORRECTIVE MAINTENANCE TIME SHALL NOT EXCEED 2.5 HOURS

E-4 MAINTENANCE PERSONNEL ABLE TO PERFORM 95% OF TOTAL **MAINTENANCE ACTIONS** 職人 を改 吹の

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CONTRACT PRODUCES A SOCIAL

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RELIABILITY

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- RELIABILITY IS AN INHERENT FEATURE OF A SYSTEM'S DESIGN.
- RELIABILITY CAN BE CONTROLLED DURING DESIGN OF A SYSTEM,
- RELIABILITY CANNOT BE DIRECTLY MEASURED, IT CAN ONLY BE ESTIMATED ON THE BASIS OF RESULTS OF SYSTEM TRIALS.
- RELIABILITY CANNOT BE TESTED INTO A SYSTEM'S DESIGN.

SYSTEM RELIABILITY

- DIRECTLY MEASURED CAN ONLY BE ESTIMATED THROUGH OBSERVING TRUE VALUE OF NON-PHYSICAL ATTRIBUTES INCAPABLE OF BEING RESULTS OF TRIALS OF SYSTEM POSSESSING THOSE ATTRIBUTES.
- ESTIMATION PROCESSES INVOLVE ATTEMPTING TO "BOUND" TRUE VALUE WITHIN AN UPPER BOUND AND A LOWER BOUND,
- BOUNDING TECHNIQUES INVOLVE STATISTICAL LIKELIHOOD THAT TRUE VALUE IS EITHER:

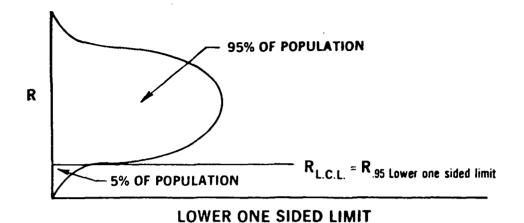
GREATER THAN UPPER BOUND, OR LESS THAN LOWER BOUND.

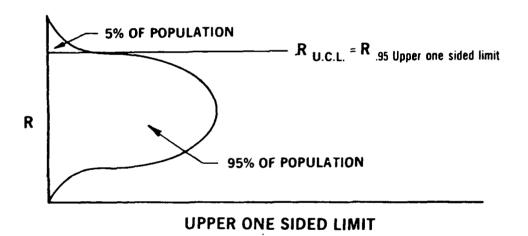
THIS "CONFIDENCE LEVEL" IS MEANS FOR EXPRESSING PROBABILITY THAT TRUE VALUE BEING ESTIMATED IS CONTAINED WITHIN THE ESTIMATED BOUNDS. 7

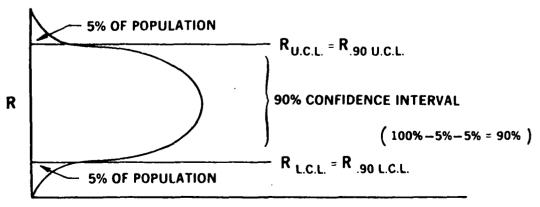
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COMBINED LOWER AND UPPER ONE SIDED LIMITS WITH LOWER AND UPPER CONFIDENCE INTERVAL LIMITS

SAMPLE CALCULATIONS FOR 90% CONFIDENCE INTERVAL

PROBABILITY TRUE SYSTEM RELIABILITY GREATER THAN 90% UPPER CONFIDENCE LEVEL VALUE:

$$\frac{1-\text{CONFIDENCE INTERVAL}}{2} = \frac{1-.90}{2} =$$

PROBABILITY TRUE SYSTEM RELIABILITY LESS THAN 90% LOWER CONFIDENCE LEVEL VALUE:

CONFIDENCE INTERVAL
$$= \frac{1 - .90}{2} = .0$$

PROBABILITY TRUE SYSTEM RELIABILITY EQUAL TO, OR GREATER THAN 90% LOWER CONFIDENCE LEVEL VALUE:

$$\frac{1 + \text{CONFIDENCE INTERVAL}}{2} = \frac{1 + .90}{2} = .9$$

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BLOCK DIAGRAM

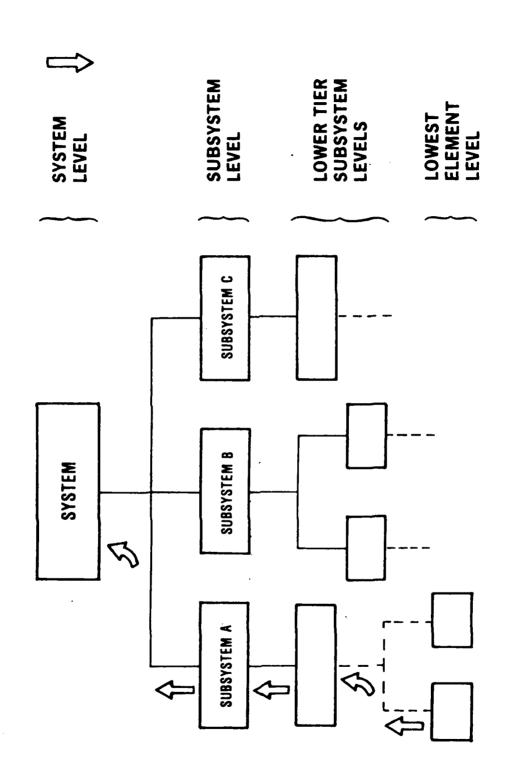
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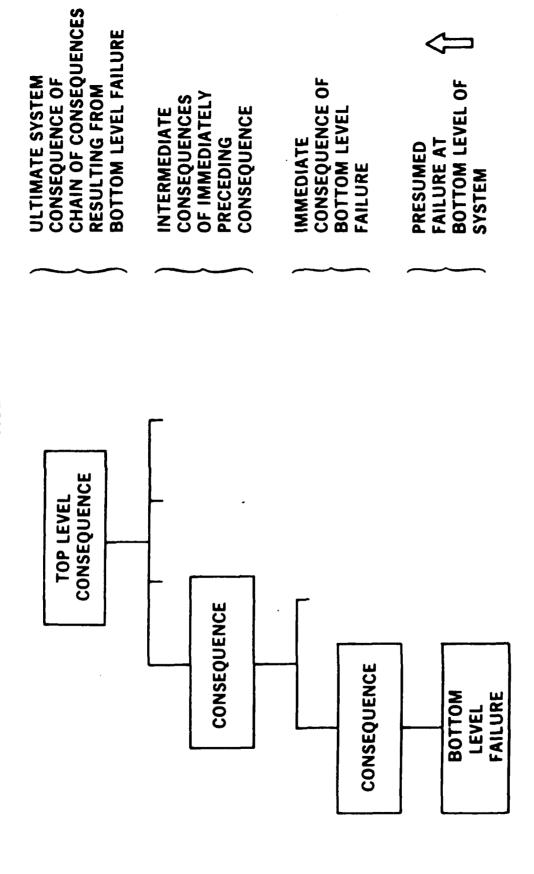
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NOTE: ARROWS () DEPICT ONE OF THE FUNCTIONAL TRAINS



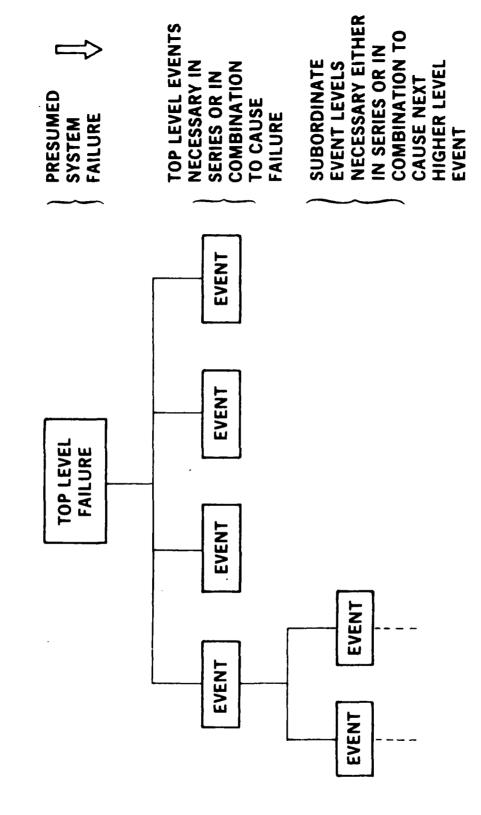
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PHASES OF MOS ACTIVITIES (I)

- PRE-TEST PLANNING
 - REVIEW "ILITIES" ANALYSES
 - **▲ POSSIBLE TEST CONDITION IMPACT UPON ARTICLE OPERATION**
 - ▲ TYPES OF ARTICLE CONDITION CHANGES (TRANSITORY & PERMANENT)
 - **CORRECT OPERATION**
 - **PARTIALLY INCORRECT OPERATION**
 - **INCORRECT OPERATION**
 - ▲ TYPES OF DATA NEEDED TO DOCUMENT ARTICLE CONDITION CHANGES
 - REVIEW MOS ARCHIVAL DATA
 - REVIEW TEST PLANS & DATA PROGRAM PLANS
 - ▲ TEST DATA ACQUISITION PROCEDURES & SYSTEM ADEQUACY
 - TEST SET-UP DOCUMENTATION PLANS
 - **■** TEST DATA ACQUISITION SYSTEM
 - - DATA PRIORITIES
 - — BACK-UP DATA ACQUISITION
 - — SYSTEM CHECK-OUT
 - SYSTEM CALIBRATION
 - POST-TEST DATA ACQUISITION PLANS
 - TEST SITE PROTECTION/ACCESS CONTROL PLANS
 - TEST SITE SAFETY INSPECTION/DOCUMENTATION PLANS
 - MOS ON-SITE DATA ACQUISITION PROVISIONS
 - - MOS TEST ARTICLE RECOVERY/TRANSPORT PROVISIONS

PHASES OF MOS ACTIVITIES (II)

- TEST SITE
 - PRE-TEST
 - A REVIEW TEST SET-UP DOCUMENTATION FOR ADEQUACY
 - TEST ARTICLE PRE-TEST CONDITION/COMPLIANCE WITH PLAN
 - TEST EQUIPMENT PRE-TEST CONDITION/COMPLIANCE WITH PLAN
 - TEST SITE PRE-TEST CONDITION/COMPLIANCE WITH PLAN
 - ▲ REVIEW TEST DATA ACQUISITION SYSTEM DOCUMENTATION FOR ADEQUACY
 - SYSTEM COMPLIANCE WITH PLAN
 - SYSTEM CALIBRATION
 - POST-TEST
 - A REVIEW TEST DATA ACQUISITION SYSTEM POST-TEST CALIBRATION CHECKS
 - ▲ CHECK TEST SITE SAFETY INSPECTOR DOCUMENTATION
 - ELEMENTS DISTURBANCE DOCUMENTATION
 - - ELEMENT IDENTIFIED
 - ELEMENT LOCATION & CONDITION DESCRIBED
 - — NATURE OF DISTURBANCE DESCRIBED (I.E. MOVED. SAFETIED, ETC.)
 - SITE DECLARED SAFE
 - ▲ CONDUCT ON-SITE DOCUMENTATION OF POST-TEST CONDITION OF ARTICLE, EQUIPMENT & SITE
 - LOCATE MAP & IDENTIFY ALL ELEMENTS
 - PHOTOGRAPH UNDISTURBED ELEMENTS
 - DESCRIBE UNDISTURBED CONDITION OF ELEMENTS
 - PREPARE ELEMENTS FOR TRANSPORTATION
 - -- DESCRIBE CHANGES OCCURRING IN ELEMENTS CONDITION

PHASES OF MOS ACTIVITIES (III)

- POST-TEST INVESTIGATION
 - PRELIMINARY TEST ARTICLE POST-TEST CONDITION DESCRIPTION
 - ▲ PREPARE UTILIZING ALL PRE-TEST & ON-SITE DOCUMENTATION
 - ▲ IDENTIFY ALL KNOWN ANOMALIES
 - TRANSITORY CONDITIONS & CONDITION INTERRELATIONSHIPS

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- PERMANENT CONDITIONS & CONDITION INTERRELATIONSHIPS
- ▲ IDENTIFY ALL KNOWN NON-ANOMALOUS CONDITIONS
- ▲ DEVELOP TEST ARTICLE AUTOPSY PLANS & SUPPORTING RATIONALE
 - TO EXPLORE ANOMALOUS CONDITIONS IN DEPTH
 - TO DOCUMENT PRESENCE/ABSENCE OF PREVIOUSLY EXPERIENCED ANOMALIES
- **AUTOPSY PLAN REVIEW**
 - **DESIGNERS**
 - "ILITIES"
 - **MANUFACTURING**
 - DUALITY ASSURANCE -
 - PROGRAM MANAGEMENT
- CONDUCT TEST ARTICLE AUTOPSY
 - ▲ STEP-BY-STEP DOCUMENTATION OF PROCEDURES FOLLOWED/CONDITIONS OBSERVED
- CONDUCT ANALYSIS OF DATA
 - **A ARCHIVAL REFERENCE FOR PAST EXPERIENCE**
 - ASCERTAIN MOST LIKELY SETS OF CONDITIONS & SEQUENCES OF EVENTS LEADING TO OBSERVED DATA
- PREPARE PRELIMINARY MCS REPORT

PHASES OF MOS ACTIVITIES (IV)

- MOS REVIEW
 - MOS REVIEW BOARD
 - A COMPOSED OF REPRESENTATIVES OF
 - **ENGINEERING**
 - "ILITIES"
 - **MANUFACTURING**
 - PURCHASING
 - OUALITY ASSURANCE
 - TESTING
 - **MOS INVESTIGATOR**
 - **▲ IDENTIFY**
 - PROBABILITY OF ANOMALY OCCURRENCE
 - **ANOMALY CONSEQUENCE POTENTIAL SEVERITY**
 - COST TO FIX
 - TIME TO FIX
 - MEED FOR. COST & TIME FOR. AND TYPE OF ADDITIONAL INVESTIGATION
 - **▲ FINALIZE REPORT**
 - IDENTIFYING ALL OBSERVED ANOMALIES WHETHER UNDERSTOOD OR NOT
 - IDENTIFYING ALL RECOMMENDED ADDITIONAL INVESTIGATION
 - IDENTIFYING ALL FINDINGS CONCERNING OBSERVED ANOMALIES
 - INCLUDING ALL RECOMMENDATIONS CONCERNING REMEDIAL ACTIONS
 - PROGRAM MANAGEMENT/CORPORATE REVIEW
 - ▲ CONTRACTUAL SCOPE
 - **A** IMPLEMENTATION DECISIONS
 - **A REFERRAL DECISIONS**
 - GOVERNMENT PROCURING AGENCY OR DESIGNEE REVIEW

PHASES OF MOS ACTIVITIES (V)

- ARCHIVAL
 - -- IDENTIFY PARTS CONTAINING ANOMALIES & RETAIN FOR PROGRAM
 - IDENTIFY ALL OTHER PARTS & HOLD IN REFERENCE RESERVE
 - ▲ NON-PERMANENT (HOLD FOR SEVERAL TESTS)
 - ▲ HELD IN EVENT NEW ANOMALY OBSERVED IN LATER TEST
 - INITIATE ANOMALY TRACKING SYSTEM
 - **▲** UPDATE AFTER EACH TEST
 - A RECORD MARGIN BY WHICH ELEMENT/SYSTEM FAILURE AVOIDED
 - MAINTAIN FAMILIAL DATA SYSTEM
 - **▲ UPDATE AFTER EACH TEST**
 - ▲ RECORD TRENDS AND/OR STATISTICAL RELATIONSHIP TO FAILURE LIMITS

REQUIRES LARGE DESIGNED

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"TRUE" RELIABILITY TO

PROVIDE HIGH PROBABILITY

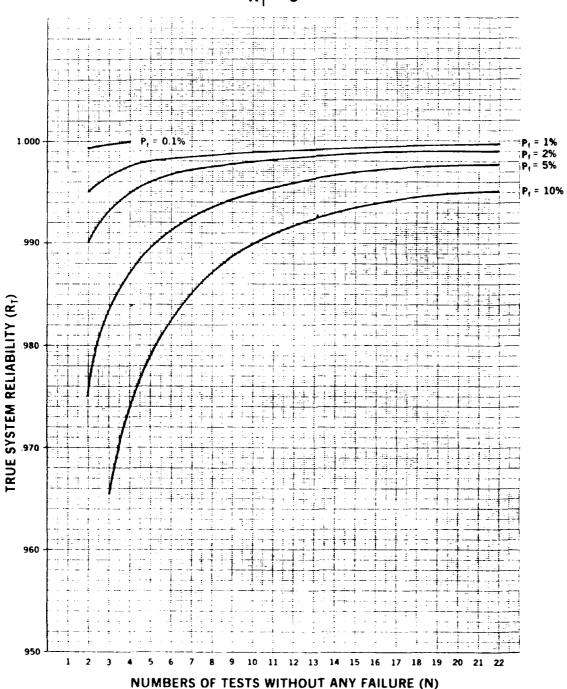
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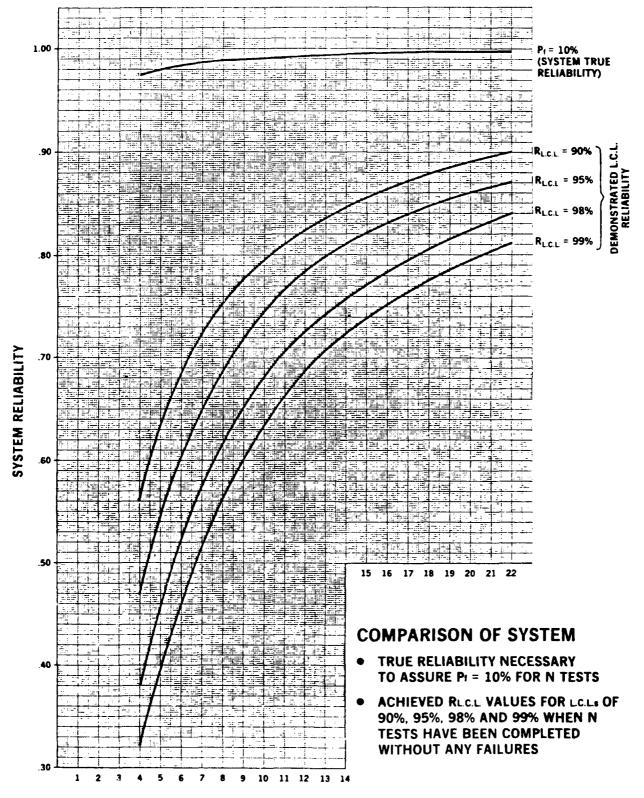
MUCH LOWER "DEMONSTRATED"

RELIABILITY.

TRUE SYSTEM RELIABILITY NECESSARY TO ASSURE SPECIFIC MINIMAL (NOT TO EXCEED) LEVELS OF P_f (PROBABILITY OF FAILING TO COMPLETE A TEST SERIES (N) SUCESSFULLY)







NUMBERS OF TESTS (N) WITHOUT FAILURE

PUBLISHED REFERENCE DATA CONCERNING

USED BY NAVAIR

PHYSIOLOGICAL LIMITS

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Abrupt Acceleration

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"In this time period, tissues react by structural damage or failure. Tissue damage is determined by such physical properties as tissue elasticity, viscosity, frequency of response, tensile and shearing strength, and compressibility. Stress on solid tissues (e.g., bone) produces little or no displacement until the yield point is reached, when fracture results. In visco-elastic tissues (muscle, skin, internal organs), unit stress produces logarithmic displacement; in body fluids, displacement is

Pages 447-448 Human Engineering Guide to Equipment Design Morgan, Chapanis, Cook, Lund McGraw-Hill Book Company, Inc. "Biologically, the limiting factor in human tolerance to headward g in the normal, seated posture is spine fracture, particularly in the upper lumbar portion, just above the "small of the back" concavity. With optimum alignment, up to 35g can be tolerated at less than 500g/sec rate of onset, but, with the back bent forward to the limit of motion, this limit diminishes to below 15g. Animals with spines optimally aligned have withstood 75g (hogs) and 65g (chimpanzees) without fracture at higher than 5,000g/sec onset. Human limits are presumably in this area, but data are lacking. With optimum support, as in immersion baths or form-fitting couches, the limit might be about 1,000g in "zero" time (0.001

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PROPERTY SECURIOR SECURIOR SECURIOR SECURIOR DESCRIPTION

Page 448

Human Engineering Guide to Equipment Design
Morgan, Chapanis, Cook, Lund
McGraw-Hill Book Company, Inc.

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Brief Acceleration

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"At about 0.2 sec duration, hydrawite effects begin. These consist of the displacement of fluids in the body cells, changes in the hydrostatic equilibrium between small blood vessels and their surrounding body fluids, changes in permeability and structural failure of blood vessels, and the mechanical displacement or deformation of body structures. Body orientation determines the physiological effect of the hydraulic displacements."

Pages 448-452

Human Engineering Guide to Equipment Design
Morgan, Chapanis, Cook, Lund
McGraw-Hill Book Company, Inc.

"Human tolerance to abrupt acceleration involves the following five mechanical factors:

a. The type of body support or restraint.

b. The orientation of the body with respect to the direction of force.

c. The rate and duration of application of the force.

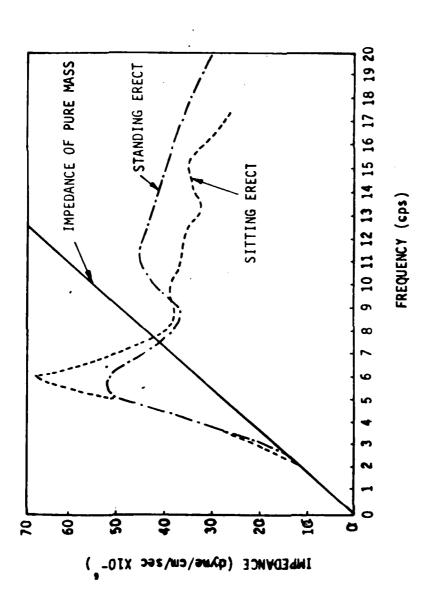
d. The magnitude of the force.

of these factors, the type of restraint is probably the most important..."

Page 448 Human Engineering Guide to Equipment Design Morgan, Chapanis, Cook, Lund McGraw-Hill Book Company, Inc. Λ'.. **(4)** 27

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(Underlining added)



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Page 469

Human Engineering Guide to Equipment Design Morgan, Chapanis, Cook. Lund McGraw-Hill Book Company, Inc.

"Parachute opening shock is a special case of total body deceleration acting over a 1-2 sec period with the body in various positions. Peak forces, acting for about 0.05 sec, will vary from 8-33g, depending on altitude and on the 4th power of parachute-opening velocity (Webster, 1953)."

THE PROPERTY CONTROL SECTIONS OF THE PARTY AND INC.

"Both operating experience and experiments (Hallenbeck, et al., 1945) indicate that opening shock is greatest at high altitudes. Forces below 200 are considered to be safe, forces of 20-30g are borderline, and forces of over 30g are dangerous for man, parachute, and harness."

Page 452 Human Engineering Guide to Equipment Design Morgan, Chapanis, Cook, Lund McGraw-Hill Book Company, Inc. ·

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Pitch Rate

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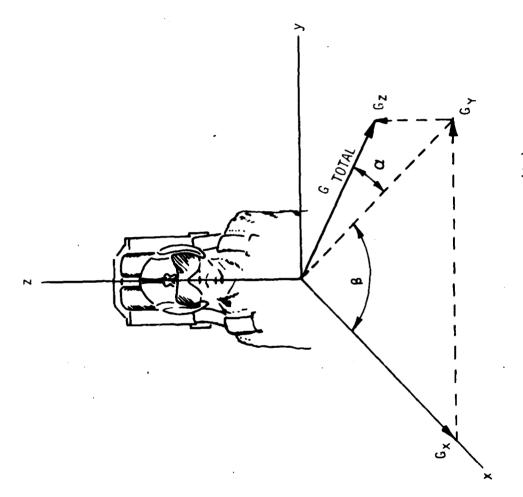
"In the pitch axis, with the center of rotation at the heart level, symptoms of negative acceleration (-Gz) are demonstrated at about 80 rpm and are tolerable for only a few seconds. Some effects of positive acceleration $(+G_Z)$, namely numbness and pressure in the legs, are also observed but develop slowly, with pain being evident at about 90 rpm. No confusion or loss of consciousness is found, but in some subjects disorientation, headache, nausea, or mental depression are noted for several minutes after a few minutes of exposure (Weiss et al., 1954).

(Underlining added)

Page 192 Bioastronautics Data Book J. F. Parker, Jr., Vita R. West National Aeronautics and Space Administration 1973 "For transverse g in the seated position, tolerance limits are set by hemorrhage into the eyes, retinal detachment, chest pain, and difficulty in breathing. The following forces are tolerable: 3g for 900 sec, 10g for 120 sec, 15g from 5-50 sec, and 25g for 1 sec. In the well supported prone and supine positions, transverse-g tolerance will probably be limited only by the strength of the heart or lungs."

Page 452

Human Engineering Guide to Equipment Design
Morgan, Chapanis, Cook, Lund
McGraw-Hill Eook Company, Inc.



LATERAL ACCELERATION (Gy)

 $G_Y = (G_{10TAL})(\cos \alpha)(\sin \beta)$

TABLE 6-3. COMPLAINTS REGISTERED BY VOLUNTEERS IN APOLLO IMPACT TESTS

Pos. No.	Seat Orientation	Complaint Tests	Category	Complaint	Sled G
	(MO 1 - 1 1 CM)	10001 1000	01 00001811163	a varige	261194
_	000-315-000	2/14	6.4	13.2 - 24.6	5.7 - 26.3
7	000-335-330	3/10	7.8.10.10	17.3 - 21.0	٠
٣	000-005-320	2/14	4,8,9,9,10	•	9.2 - 25.6
-	000-035-330	4/12	1.1.4.4.6	18.5 - 25.0	10.5 - 25.0
2	000-045-000	5/14	2,4,4,5,5,6,9,9,9	•	5.9 - 25.0
•	000-032-030	6/12	2,4,4,5,8,9,9,10	18.5 - 24.5	10.2 - 24.5
7	000-005-040	4/11	2,4,4,6,7,9	14.2 - 23.5	10.0 - 23.5
œ	000-335-030	1/14	6.4	19.5	8.0 - 24.7
6	000-085-180	1/2	2,4,10	8.6	9.8 - 11.8
2	000-085-220	2/13	4,10,10	13.9 - 15.4	5.9 - 16.0
==	000-085-270	0/2	No complaints	•	17.4 - 18.7
12	000-085-320	2/21	1.1.4	15.7 - 17.8	6.4 - 19.5
13	000-082-000	0/2	No complaints	•	9.4 - 11.1
=	000-082-040	1/13	•	14.6	5.8 - 18.2
15	000-082-030	0/2	Ho complaints	•	11.6 - 13.5
91	000-085-140	3/14	4.5.5	15.1 - 16.0	5.5 - 18.9
17	000-045-180	6/17	1,1,2,2,3,3,3,5,5,5	15.0 - 26.1	15.0 - 26.1
	•		5.5.6.7.7.7.7.8.8.		
			9.10.10		
9	000-035-210	8/50	1,1,2,2,3,4,5,6,6,6,	15.2 - 23.2	10.5 - 28.9
19	000-009-220	5/16	6.6.6.6	16.5 - 28.2	16.5 - 30.0
22	000-335-210	1/6	2	19.8	•
21	000-315-180	1/10	2,3	19.0	15.8 - 21.9
22	000-335-150	8/0	No complaints	•	•
23	000-005-140	8/19	2,2,4,5,6,8,9,9,9,9,	16.4 - 30.7	
			01.6,6		
54	000-035-150	61/8	1,1,2,2,5,5,5,6,6,7	11.0 - 29.3	11.0 - 29.3

Note: Theadache - Incidence at impact, duration up to several hours.

2 Stunning/disorientation - Incidence at impact but of brief duration.

3 Blurred vision/spots before eyes - Incidence at impact but of brief duration..

Meck/back muscle spasm/strain - Delayed onset, lasting up to several days.
Chest pain - Incidence at impact but of brief duration.

Shortness of breath - Incidence at impact but of brief duration.

Abdominal visceral displacement sensation - At impact.

Subjoint pain - Delayed onset and lasting up to several days.

Subjoint pain - Delayed onset and lasting up to several days.

Several days.

Outpur extremity muscle spasm/pain - Delayed onset and lasting no longer than I day.

(Brown et 41., 1966)

Page 243 Bidastronautics Data Book Parker, West National Aeronautics and Space Administration 1973 7

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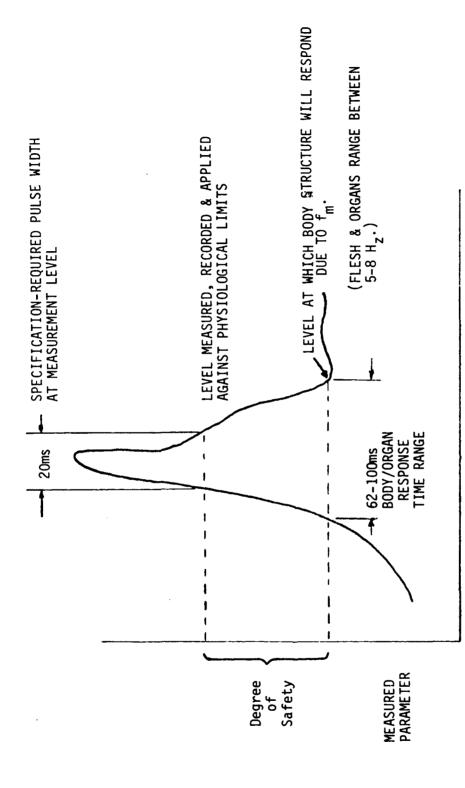
RANGE OF LATERAL ACCELERATION (GY) CAUSING SUBJECT COMPLAINTS*

$$G_{Y} = (G_{TOTAL})(\cos 5^{0})(\sin 40^{0})$$

POSITION	_{тот} 9	AL	6	
NO.	MI	FIAX	MIN	1/1
٣	17.5	17.5 25.6	11.2 16.	16
7	14.2	23.5	9.1	15,
19	16.5	28.2	10,6	13
23	16.4	30.7	10,5	19,

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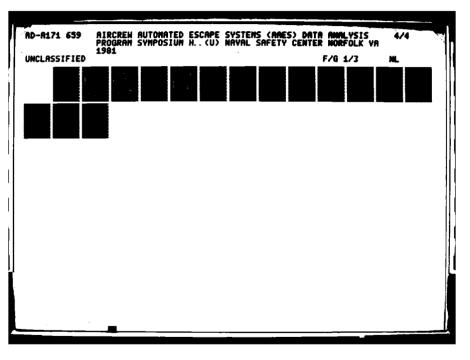
* NO MAJOR INJURIES REPORTED

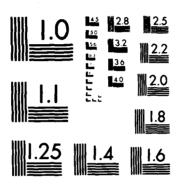


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MICROCOPY RESOLUTION TEST CHART NATIONAL BUREAU OF STANDARDS-1963-A

LATERAL ACCELERATION COMPARISON

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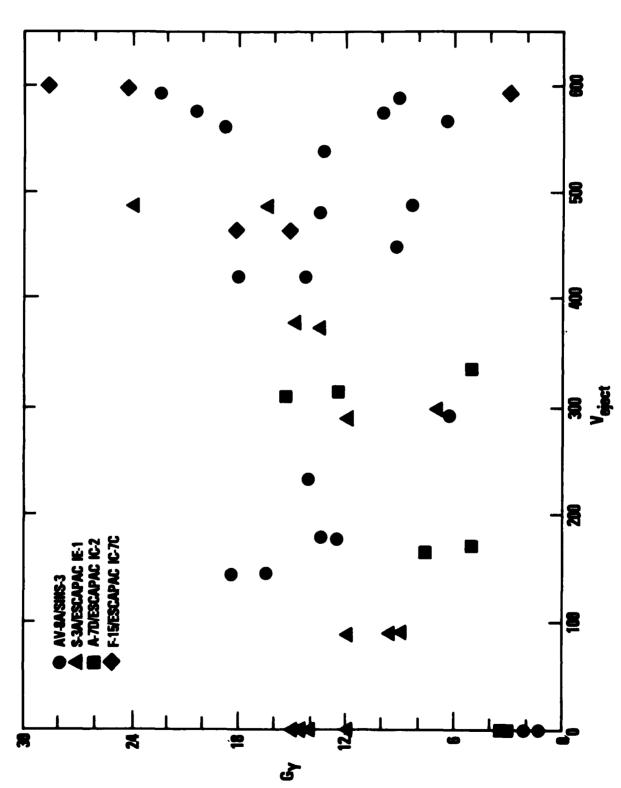
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2 LATERAL ACCELERATION COMPARISON 묾 흡 易 EA-BBINAL GRUEAS F14/MK GRU7A A-GINE GRU7 F-4/NEK H7 AV-BA/SIIIS-3 旨 5

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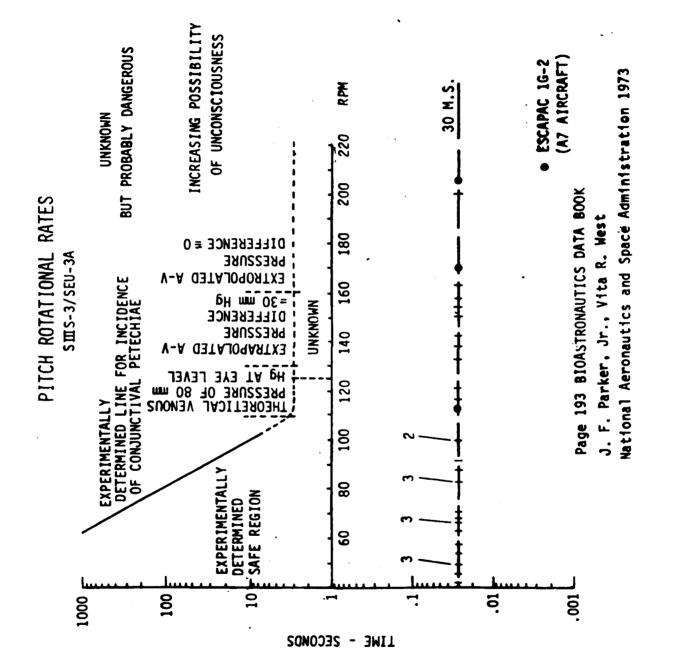
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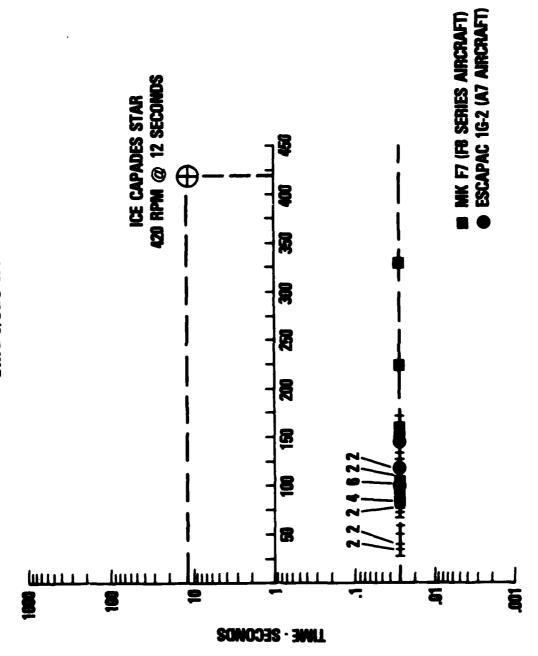
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YAW ROTATIONAL RATES SIIIS-3/SEU-3A



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"The phenomenon of epicyclic tumbling occurs primarily after emergency ejection from high-speed aircraft. Rates of tumbling as high as 200 rpm can be expected, and the winddrag superimposes a decelerative g field...These decelerative forces are dangerous if encountered alone, but, when superimposed on headover-heels tumbling, the type of damage that results is qualitatively different from either the effects of deceleration alone or of tumbling alone or of a mere summation of these effects. For example, at 60 rpm in a 30g field, the force exerted on the body is 30g, the vector of this force changes direction by 180 deg every 1/2 sec, and the result is a severe, low-frequency vibration..."

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Page 457

Human Engineering Guide to Equipment Design Morgan, Chapanis, Cook, Lund

McGraw-Hill Book Company, Inc.

"The primary result of epicyclic tumbling, like that of vibration..., is mechanical damage to loosely suspended organs resulting from compression by the changing force vectors. Rigidly held organs are damaged less, and, for this reason, some amount of protection is obtained with abdominal compression produced by pressure suits."

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"Animal data and the results of actual ejections indicate that moderate tumbling in a field of less than 15g is not dangerous. This phenomenon is thought to be due to the low-frequency response of the vascular (blood) column, which might suggest that tumbling is beneficial when deceleration occurs. It should be remembered, however, that the nechanical damage associated with tumbling is a more serious result. Thus, except for special instances, when high levels of deceleration are anticipated, stabilized ejection seats are recommended."

Page 458 Human Engineering Guide to Equipment Design Morgan, Chapanis, Cook, Lund McGraw-Hill Book Company, Inc. ۲

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DURING WORLD WAR II, PILOTS OF AIRCRAFT AND IN MANY INSTANCES WERE UNABLE TO EXTREME DIFFICULTY EGRESSING COCKPITS EGRESS DUE TO HIGH WINDBLAST LOADS. DISABLED AT HIGH SPEEDS EXPERIENCED

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THUS, INITIAL CONCEPTS OF EJECTION SEATS OF AIRCRAFT EJECTEE PERFORMED MANUAL WERE CONCERNED ALMOST ENTIRELY WITH EGRESS ASPECT OF ESCAPE. ONCE CLEAR BAILOUT FROM SEAT.

THESE INITIAL SYSTEMS PROVIDED VERY LIMITED ESCAPE CAPABILITY:

SACOSO SECONOSI (COLOROS PEREZERA

- WITH WINGS AND NOSE LEVEL AND NO SINKRATE MINIMUM REQUIRED TERRAIN CLEARANCE WAS 2,000 FEET.
- REQUIRED SIGNIFICANTLY GREATER ALTITUDES NONLEVEL OR SINKRATE FLIGHT CONDITIONS ESCAPE. FOR SAFE

RELY ON CONTROLLED DITCH/CRASH OF AIRCRAFT. BELOW SAFE EJECTION ALTITUDES PILOT WAS FORCED

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AIRCRAFT (PREDECESSOR TO ESCAPACS), TREATED THE PARACHUTE AS PART OF CREW'S EQUIPMENT EVEN THOUGH STOWAGE SPACE MOST EARLY EJECTION SEATS, INCLUDING THOSE IN EARLY A-4 WAS PROVIDED.

FOR SAFE PARACHUTE OPERATION FOLLOWING ESCAPE FROM AIRCRAFT EJECTEE HAD TO:

- UNBUCKLE FROM AND PUSH CLEAR OF SEAT
- WAIT TO ASSURE SUFFICIENT SEPARATION FROM SEAT
- MANUALLY ACTUATE RIPCORD TO OPEN PARACHUTE PACK.

SEAT-MAN INVOLVEMENTS GENERALLY RESULTING IN DEATH FAILURE TO WAIT OFTEN CAUSED SEAT-PARACHUTE AND/OR SERIOUS INJURY. TIME FROM ESCAPE INITIATION UNTIL EJECTEE WAS DESCENDING DEPENDENCY ON MANUAL OPERATION BY MAN IN HIGH STRESS UNDER FULL PARACHUTE WAS EXTREMELY VARIABLE DUE TO SITUATION/ENVIRONMENT. FATALITY RATES AMONG EJECTEES NEAR OR BELOW SAFE LIMITS, EJECTION LIMITS, AND AMONG CREWS UNABLE EITHER TO EJECT AMONG CREWS ATTEMPTING DEADSTICK LANDINGS FROM BELOW OF COVERAGE FOR CRITICAL LAUNCH AND RECOVERY PHASES OR CONTROL AIRCRAFT, RESULTED IN ATTEMPTS TO IMPROVE ESCAPE ENVELOPE. OF PARTICULAR CONCERN WAS THE LACK OF CARRIER OPERATIONS.

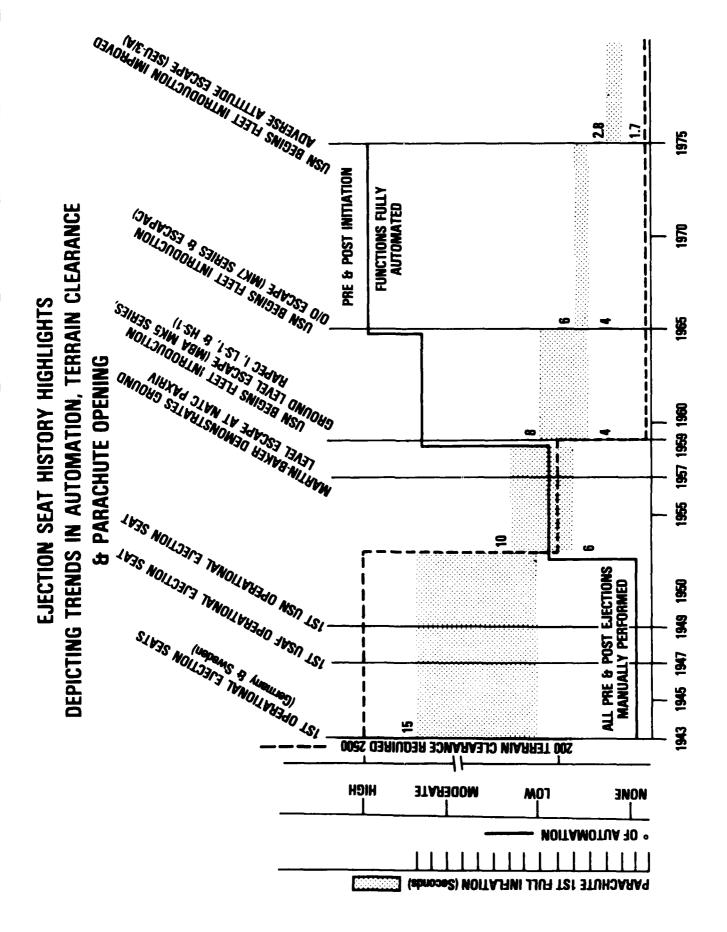
INITIAL PERFORMANCE IMPROVEMENT EFFORTS WERE AIMED AT REDUCING TIME AND UNCERTAINTY ASSOCIATED WITH MANUAL FUNCTIONS BY AUTOMATING THEM.

1962 USN UNDERTOOK BOTH MAJOR UPGRADING AND REPLACEMENT BY MID- TO LATE-1950's 200 FOOT WINGS/NOSE LEVEL NO SINKRATE ACTION TO OBTAIN GROUND LEVEL ESCAPE CAPABILITY. HOWEVER, ESCAPE WAS BEING ACHIEVED. BETWEEN LATE 1958 AND EARLY THIS DID NOT COVER LAST STAGES OF LANDING OR INITIAL AIRBORNE PHASE OF TAKE-OFF.

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ZERO-ZERO (0/0) ESCAPE WAS OBTAINED THROUGH MAJOR REDUCE ALL AIRBORNE EMERGENCY-CAUSED FATALITIES, DURING MID. TO LATE 1960'S, IN ATTEMPT TO FURTHER MODIFICATION PROGRAMS.

APPROACH USED WAS TO CHANGE PROPULSION (INTRODUCE SINCE ACCEPTABLE MEANS FOR SHORTENING PARACHUTE OPERATING TIMES DID NOT EXIST. THEREFORE PRIMARY OBTAIN SUFFICIENT TIME FOR PARACHUTE OPERATION ROCKETS) TO OBTAIN GREATER TRAJECTORY HEIGHT. PRIMARY PROBLEM SEEN IN OBTAINING 0/0 WAS TO



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CAUSES FOR AIRCREM LOSS

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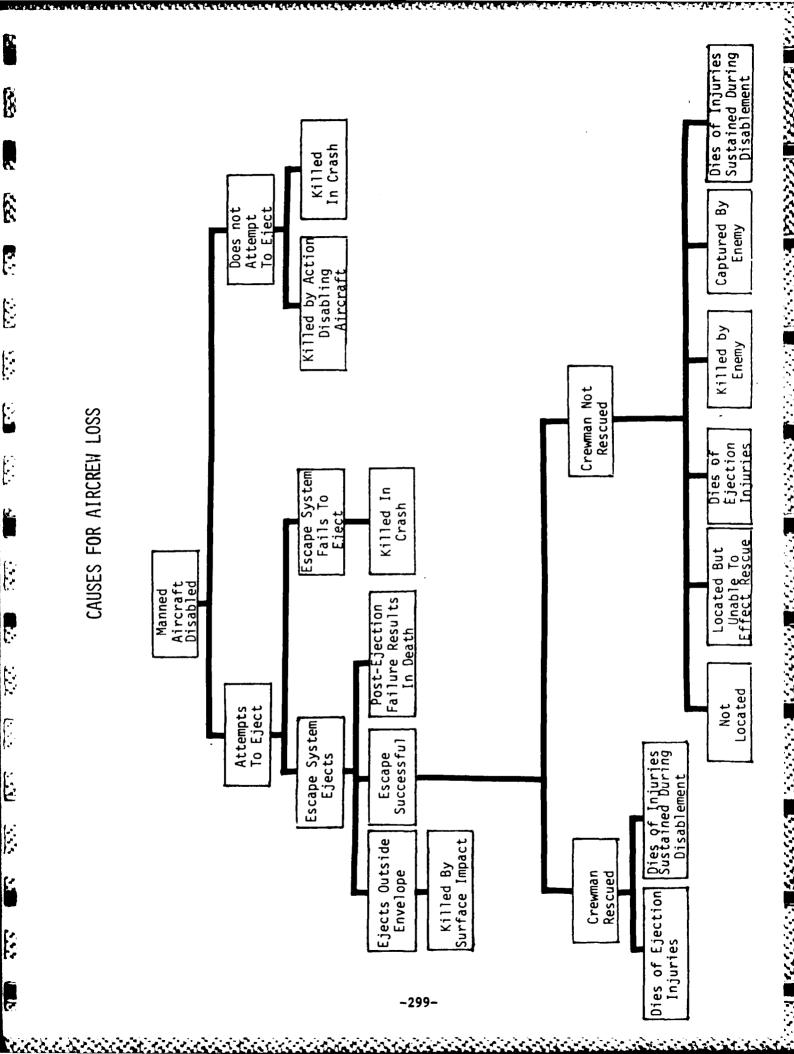
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IMPROVED EJECTION ENVELOPE BENEFITS

- ESCAPE AVAILABLE FOR MORE AIRCREW (I.E. THOSE ENCOUNTERING LOW LEVEL EMERGENCIES REQUIRING ESCAPE),
- MORE TIME AVAILABLE TO AIRCREW FOR PROBLEM DIAGNOSIS AND SOLUTION,
- POSSIBLE INCREASED SAVING OF AIRCRAFT

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PROCESSES BOSCOCK CONTRACTOR CONT